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T&E PERCENTAGES

SITE/ACTIVITY: SACRAMENTO McCLELLAN AFB / 337 TS

FACILITY	TOTAL % T&E	AV	A/W	EC	OTHER
337 TS	Ø				

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Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

March 31, 1994

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

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T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training,

etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components: data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or

Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground

space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures

generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon

subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

Use the forms and accompanying instructions in appendix A to provide answers for this section.

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package. See Appendix A

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92,

FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

Air Vehicles:

Type of Funds/PEC	FY92	FY93	FY94	FY95	FY96-97
DMIF/NA	75	73	63	unk	unk
COD/NA	222	227	163	unk	unk
O&M 3400 (583) /27129&27131	2445	2507	392	150	150
O&M 3400 (546) /72207	7000	9500	4000	3700	1500
3010 (BP1100)/NA	60	4659	1448	1000	1200
3010 (BP1200)/NA	1800	1926	0	unk	unk
3080 (BP8400)/NA	140	0	0	unk	unk
3600/27129	1500	1160	962	unk	unk
3400 (Off Station) /72207	78	0	0	unk	unk
Totals	13320	20052	7028	4850	2850

The 337 TS will transfer to the 46th Test Wing at Eglin AFB as of 1 July 1994. The 337 TS will remain located at McClellan AFB when they report under the 46th Test Wing. Funding shown in these years will be sent to Eglin for support of the SM-ALC tests.

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Air Vehicles: FY92: 29 Workyears
FY93: 22 Workyears
Electronic Combat: N/A
Armament/Weapons: N/A
Other Tests: N/A
Other: N/A

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

See appendix A

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc?

The capacity of the FDAPS is the constraint. We estimate the current FDAPS could support up to 10 sorties per day with test results processed sequentially. This would require a three shift operation using the upgraded ground station. Physical space is not a problem since the 337 TS facilities are constrained only by the amount of space allocated by SM-ALC - additional space could by allocated out of depot maintenance facilities as available, if needed for the test mission.

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans?

No. The 337 TS does not have a specified war time tasking established in war plans. The test pilots are typically ferry aircraft where needed during contingencies.

-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?

-2.3.B.1 On the test mission of any other activity?

Yes, the Sacramento Air Logistics Center aircraft depot maintenance function requires the test squadron to support its mission - both for post aircraft depot maintenance functional check flights and to support the aircraft system program offices for Engineering Test Missions. The collocation of the 337 TS with the depot maintenance function and the weapon system program office engineering functions is a critical partnership that follows the Integrate Weapon System Management (IWSM) concept.

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States?

No, the test mission does not impact other activities or missions outside of the host installation.

SECTION 3: MEASURES OF MERIT

This section relates the measures of merit and the required data to the four criteria that have been established for Military Value. The four military value (MV) criteria are:

CRITERION 1: The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.

CRITERION 2: The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.

CRITERION 3: The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.

CRITERION 4: The cost and manpower implications.

3.1 OVER-ARCHING MEASURES OF MERIT

The over-arching measures of merit are listed with accompanying questions (or data requirements) intended to elicit standard information upon which the cross-service analyses can be based, and on which the Joint Cross-Service Groups can base their reviews of the Military Department analyses. Additional specific measures of merit are shown under individual functional areas. The numbers in parentheses () before each measure of merit indicate the BRAC selection criteria for military value.

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.

None. Although the 337 TS uses ranges owned by others (such as Edwards, Nellis, Fallon, Cannon, Mountain Home, and UTTR) data exchange occurs after the fact and can not be considered real time or near real time. All test facilities (except the China MOA and IR 271 airspace) are external to the site and are operated by others.

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/no. If yes, explain.

No. The impact would be to SM-ALC only (see question 2.3.B). As of 1 July 94, the 337 TS will report to the 46th Test Wing at Eglin AFB. The squadron will remain located at McClellan AFB.

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*
Fill out the Facility Condition Form in Appendix A in accordance with the instructions.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

- 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility?

Yes/no. If yes, explain.

No. Currently there are no environmental or encroachment characteristics with the installation/facility restricting current or future T&E expansion. Historically the base has enjoyed an effective working relationship with State and Federal agencies to allow mission accomplishment and expansion.

- 3.1.C.2 How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload.

Not applicable at this time.

- 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? If so, when do they expire? Please describe.

The 337 TS does not operate under any permits.

- 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?

Population within...

50 mile radius:	2,023,767
100 mile radius:	8,699,582
150 mile radius:	11,038,687
200 mile radius:	11,650,881

- 3.1.C.5 Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space.

- 3.1.C.5.A How many test missions per year are canceled due to

commercial or public use?

None. None.

- 3.1.C.6 What is the number of test missions that have been canceled due to encroachment in each of the last two years?

None.

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe.

Yes. Data reduction facilities (Flight Data and Processing System) and full depot level maintenance support.

-3.1.D.2 Are specialized targets required to support this facility? Yes/no. If yes, explain.

Yes, specialized targets at Nellis and Edwards are used to support the test mission. These ranges and targets are not owned by 337 TS.

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom?

Yes the targets are validated by the range owners and are validated in the test plans. These ranges and targets are not owned or managed by the 337 TS.

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain.

Yes expansion is possible within the Air Vehicle T&E area. SM-ALC has full depot-level support structure with all maintenance expertise, weapon system program office engineering expertise and supply assets on-hand. The facility is located near underutilized ranges, numerous low-level routes, and large volumes of airspace including overwater supersonic space. The only airspace managed by McClellan AFB is the China MOA and IR 271. All other areas are owned and managed by others but can support 337 TS requirements.

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/no. If yes, identify by T&E functional area and test type.

Yes in the Electronic Combat T&E area. The Space and C3I Directorate (SM-ALC/LH) is the Air Force Depot for all ground communications - electronics systems. The depot repairs units from the other services and the Federal Aviation Administration putting SM-ALC/LH in a prime position to support interoperability testing. SM-ALC/LH has the capability to conduct DT&E and "beta" testing for system integration using hot mock ups and actual equipment. SM-ALC is also the Air Force Center for electro-optics and has a industrial reactor that is capable of some electro-optics testing. These depot capabilities can also support T&E functions.

SM-ALC/TIEFC has two Shephard 484 raditors (for sample irradition) scheduled for installation in Sep 94 and Oct 94 for electro-optics testing. One unit has 19100 curies of CO-60 and the other unit has 100 curies of CO-60 and 130 curies of CS-137. There is a new agreement (the Sacramento Technology Coalition, Jul 94) with the University of California at Davis, making a proton source at the university available for electro-optics testing.

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain.

Unknown - We have never had a need to expand China MOA and IR 271 because of the numerous other ranges, routes and airspace in the area that are managed by others and available to support the 337 TS needs. Expanding the China MOA and IR 271 would need FAA approval.

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

Yes. The 337 TS can currently support up to secret level.

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain.

No.

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/no. If yes, describe.

No.

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe.

No.

-3.1.F.1.B Within the US? Yes/no. If yes, describe.

No.

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

No.

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?

The 337 TS uses the following airspace (Note square miles are indicated only for the airspace managed by McClellan AFB, please see the data from the range owners questionaires for areas not owned by McClellan AFB):

Area Name	Type	Owner	Area Size (Sq Nm)
China MOA	MOA	337 TS McClellan AFB	600 Sq Nm
R-2508 Complex	MOA	Edwards AFB	
R-2515	MOA	Edwards AFB	
Anchor Bay	MOA	NAS Alameda	
Gabbs/Austin	MOA	NAS Fallon	
Ranch	MOA	NAS Fallon	
Edwards PIRA	Range	Edwards AFB	
Utah Test Trng Rng	Range	AFFTC	
Fallon Complex	Range	NAS Fallon	
Saylor Creek	Range	Mountain Home AFB	
Nellis Complex	Range	Nellis AFB	
Melrose	Range	Cannon AFB	
IR 271	Low Level Trng Route	337 TS McClellan AFB	425 Sq Nm

VR-1250	Low Level Trng Route	NAS Lemoore	
VR-1251	Low Level Trng Route	NAS Lemoore	
VR-1257	Low Level Trng Route	NAS Lemoore	
VR-1262	Low Level Trng Route	NAS Lemoore	
VR-201	Low Level Trng Route	NAS Lemoore	
IR-303	Low Level Trng Route	Mountain Home AFB	
IR-304	Low Level Trng Route	Mountain Home AFB	
IR-266	Low Level Trng Route	Cannon AFB	
IR-112	Low Level Trng Route	Cannon AFB	
W-260	Other	FACSF San Diego	

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use?

Area Name	Type Area	Owner
Edwards PIRA	Range	Edwards AFB
Utah Test Trng Rng	Range	AFFTC
Fallon Complex	Range	NAS Fallon
Saylor Creek	Range	Mountain Home AFB
Nellis Complex	Range	Nellis AFB
Melrose	Range	Cannon AFB
R-2508	MOA	Edwards AFB
R-2515	MOA	Edwards AFB
W-260	Warning Area	FACSF San Diego

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are

associated with the restricted areas?

The 337 TS uses Fallon, Edwards, Nellis, Cannon, UTTR and Mountain Home ranges but does not own or operate any restricted airspace. See the questionnaire from these facilities to get the requested data.

-3.1.G.4 Do you have special use airspace other than supersonic airspace? Yes/no. If yes, for what types of test (e.g. terrain following radar)? Dimensions? Will it support simultaneous users? Yes/no.

Yes, IR 271 supports low level training (terrain following radar) and is 85 nm long by 5 nm wide (dog leg after 50 nm) with a area of 425 nm. The area can support up to four simultaneous users.

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each.

Only the China MOA and IR271 airspace are operated by McClellan AFB. China MOA is 600 sq nm over land. IR 271 is 425 sq nm over land.

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission.

None.

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles?

China MOA - 34 nm straight line.
IR 271 - 50 nm straight line.

-3.1.G.8 What public airspace have you used for overflight of weapons systems in the past? What was the nature of those tests? Do you anticipate being able to

use that same public airspace for similar tests in the future? Yes/no.

Various. Weapons Drops. Yes

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/riverine, desert, and sea. State the area of each in square miles.

IR 271 is valley area with grassland, rolling hills and some trees and is 425 sq nm. China MOA is wooded mountainous topography and is 600 sq nm. See question 3.2.B.3 for other airspace used by the 337 Test Squadron but managed by others.

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test?

Various types of terrain enhance testing by allowing tests over multiple types of terrain during a single sortie. Most sorties are accomplished in airspace managed by others in the region.

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years.

No, tests are conducted within a single round trip sortie from McClellan. Most sorties are accomplished in Airspace owned by others. Please reference answer to question 3.1.G.1 for all test areas used by the 337 TS.

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees?

Average temperature below 32 degrees: 0 days

Average temperature between 32 and 95 degrees: 365 days
Average temperature above 95 degrees 0 days

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%?

Data is not available in the desired breakout due to the turn around time for the special report. Special break outs are available from the USAF Environmental Technical Application Center at Scott AFB.

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather?

Historical data not maintained. Estimate 20 Engineering Test Missions and 40 Functional Check Flight (FCF) sorties canceled for weather.

-3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather?

Historical data not maintained. Estimate 10 days

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles?

Data not available in the desired breakout due to the turn around time for the special report. Special break outs are available from the USAF Environmental Technical Application Center at Scott AFB

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years.

The squadron does not keep available flying day records. Estimate 355 days.

-3.1.H.10 What percentage of the time are your test operations restricted due to weather?

The squadron does not keep available flying day records. Estimate 5%.

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

-3.2.A.1 Do supersonic corridors or areas exist? Yes/no.

: Yes supersonic corridors exist within the single sortie flying area but **none are owned or managed by McClellan AFB**. They are located:

135 NM west over the Pacific Ocean (FAA controlled north of W-260 - 35 nm west of Mendocino)
50 NM northeast over the Sierra mountains (FAA controlled)
300 NM southeast in Edwards range complex (Black Mountian Supersonic Corridor and the High Allitude Supersonic Corridor) owned by Edwards AFB.

-3.2.A.2 Where are they located relative to your airfield?

Pacific: 135 NM west over the Pacific Ocean, 35 nm west of Mendocino (FAA controlled)
Sierra: 50 NM northeast over the Sierra mountains (FAA controlled)
Edwards supersonic corridors: 300 nm southeast (Edward AFB controlled)

-3.2.A.3 At what altitude (upper and lower altitude)?

Pacific: Flight level 240-510 (FAA controlled)
Sierra: Flight level 300-450 (FAA controlled)
Edwards: Black Mountian supersonic corridor: Surface to flight level 300 (Edwards controlled) and High Allitude supersonic corridor: Flight level 300-600 (Edwards controlled)

-3.2.A.4 Over land or water? What size and shape (length and width)?

Pacific - water, dimensions: pacific ocean
Sierra - land, 100 nm long by 10 nm wide.
Edwards - land, see Edwards AFB questionaire for dimensions.

-3.2.A.5 Are there restrictions you must observe to use this space? Yes/no. If yes, explain.

We must coordinate the use of the air space with the air space managers/owners. For those area controlled by the FAA we must file a flight plan at least 45 minutes in advance.

-3.2.A.6 What is the maximum number of simultaneous users?

FAA controlled airspace the maximum number of simultaneous is unknown. The 337 TS experienced 4 users in the areas. See the Edwards AFB questionaire data for their airspace information.

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit: *Extent of air vehicle infrastructure to support T&E operations.*

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space.

Airfield Characteristics

Number of active runways: 1 Runway 16

Azimuth: 38 Degrees 40.1 Minutes North
121 Degrees 24.0 Minutes West

Elevation: 75 Ft

Dimensions of the primary runway: Length 10,600 ft, Width 200 ft

Overrun length: Runway 34: 1,090 Ft
Runway 16: 1,270 Ft

Landing Aids: Runway 34: ILS
Runway 16: ILS, VORTAC

Width of primary taxiway: 50 & 75 ft

AIRCRAFT GROUP & CRITERIA	PRIMARY PAVEMENT		
	RUN CAN SUPPORT ACFT (YES/	TAXI CAN SUPPORT ACFT (YE	APRONS CAN SUPPORT ACFT (YES/NO)
Fighter F-15, 61 kips 300,000 passes	YES	YES	YES
Fighter F-16C/D, 37 kips 300,000 passes	YES	YES	YES
Bomber B-52, 450 kips 15,000 passes	YES	YES	YES
Bomber B-1B, 450 kips 50,000 passes	YES	YES	YES
Tanker KC-135R, 320 kips 50,000 passes	YES	YES	YES

Tanker KC-10, 550 kips 15,000 passes	YES	YES	YES
Airlift C-5B, 800 kips 50,000 passes	YES	YES	YES
Airlift C-141, 325 kips 50,000 passes	YES	YES	YES

Excess aircraft parking capacity for operational use: 224,900 SY

Total usable aircraft parking (SY): 471,550 SY

Dimensions of each aircraft parking area (LF) and current use:

Mat	Dimensions (LF)	Use
C	750x850	Open, but provides depot maintenance hangar access
E	750x950x1100 triangle	Transient parking
I	110x1300	Depot Maintenance test ops
K	275x450	Depot Maintenance aircraft defuel/fuel area
O	1600x1980x2310 triangle	Depot Maintenance staging and transient parking
T(1)	200x250	LA PDM flight test ops
T(2)	200x250	LA PDM flight test ops
U	780x1660	940 ARG ops and LA tanker PDM staging
V	725x900	US Coast Guard helo and C-130 ops
A/F	360x450	652 CLSS and LA fighter PDM staging

Current aircraft parking requirement for permanently assigned aircraft (SY):

246,650 SY

Excess space is available for parking additional non transient aircraft (SY):

224,900 SY

Dimensions of your transient parking areas:

Transient parking on Mat E and Mat O is triangular in both cases, with side dimensions of 750 LF, 950 LF, and 1100 LF; and 690 LF, 1080 LF, and 1285 LF respectively.

Operational aircraft arresting systems are on each runway:

Two BAK 12b/14's and two BAK 9's, one of each at each end of runway

Hangar Facility #	Use	Size (SF)
239	Depot Maintenance	12648
240	Depot Maintenance	12595
251	Depot Maintenance	592854
360	Depot Maintenance	73049
362	Depot Maintenance	92675
365	Depot Maintenance	41460
375	Depot Maintenance	38900
635	Aero Club	6441
692	Depot Maintenance	50423
704	Depot Maintenance & 337 TS	99478
721	Depot Maintenance	21600
722	Depot Maintenance	21600
732	Depot Maintenance	12600
733	Depot Maintenance	8400
734	Depot Maintenance	15600
735	Depot Maintenance	8400
751	Fighter Fuel System Maintenance	6720
752	Fighter Fuel System Maintenance	6720
753	Fighter Fuel System Maintenance	6720
754	Fighter Fuel System Maintenance	6720
763	Fighter Fuel System Maintenance	4320
764	Fighter Fuel System Maintenance	3600
765	Fighter Fuel System Maintenance	3600
767	Fighter Fuel System Maintenance	4320
772	Depot Maintenance	53160
774	Depot Maintenance	13440
877	Depot Maintenance	9783
878	Depot Maintenance	10102
1020	General Storage	12073
1021	Aircraft museum restoration	12073
1022	KC-135 Maintenance	12073
1023	Aircraft battle damage repair training	12073
1027	KC-135 Maintenance	12073
1028	KC-135 Maintenance	12073
1032	KC-135 Maintenance	12073
1033	Aircraft ground equipment storage	12073
1071	Depot Maintenance	89474
1106	USCG C-130 Maintenance	68343
7600	Engine Test (hush house)	5166

7601	Engine Test (hush house)	5986
7602	Engine Test (hush house)	5986
7603	Power check pad	6440
7604	Engine Test (hush house)	5166
7605	Power check pad	6440
7606	Power check pad	6440

-3.2.B.2 How close and how many emergency runways or airfields are in your area of operation?

Sacramento Metropolitan Airport	8 NM
Beale AFB	28 NM
Metropolitan Oakland Airport	68 NM
Travis AFB	34 NM
Mather Air Field	9 NM
Reno Cannon International	92 NM
Castle AFB	89 NM
Fresno Air Terminal	145 NM

-3.2.B.3 Where is your airfield situated relative to working areas (airspace) for supporting test operations?

McClellan AFB is located near numerous working areas (airspace) that can support all types of test operations. McClellan does not manage any ranges.

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations?

Location. McClellan is close to various ranges, low-level routes, and supersonic airspace. The region also has good weather well suited for flying.

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s).

No.

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could

you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles?

Based on the hangar and ramp space currently assigned to the 337 TS, approximately 12 fighter sized aircraft, 1-2 large aircraft (bomber or transports), 12 rotary wing. The facility is not suitable for UAVs or cruise missiles.

-3.2.C Test Operations (MV II) - Measure of Merit: *Extent of T&E operations that the airspace can accommodate.*

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics)

Fixed wing and rotary wing only.

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions?

Yes

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)?

Based on the hangar and ramp space currently assigned to the 337 TS, approximately 12 fighter sized aircraft, 1-2 large aircraft (bomber or transports), 12 rotary wing or a mix there of could be supported. The facility is not suitable for unmanned aircraft.

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions? If yes, explain.

UAVs can not be supported because of the dense depot mission operations in the area. Rotary wing operation do not pose any limitations. Marine rotary wing units operated out of McClellan AFB in an exercise early this year and did not pose any mission limitations.

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace?

Air-to air, air-to-ground, refueling, instrument, low level, supersonic missions exist within a single sortie range of McClellan AFB - **THESE AREAS ARE NOT OWNED OR MANAGED BY MCCLELLAN AFB**. IR 271, which is managed by McClellan AFB supports low level (terrain following radar).

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry?

N/A. No telemetry is used by the 337 TS.

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace?

4 simultaneous test missions in the China MOA and IR 271 Airspace.

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation.

Aircraft	Qty	Owner
F-111A	1	337 TS
EF-111	1	337 TS
T-38	1	337 TS
A-10	2	337 TS
A-10	1	Loaned to 337 TS from Nellis
HC-130	4	USCG
KC-135E	10	940 ARG
PA28-161 Warrior	3	Aero Club
Cessna 172	3	Aero Club

Archer PA 28-181	1	Aero Club
Piper Aztech PA23-250	1	Aero Club
Cessna 172	2	Leased to Aero Club
Cessna 150	1	Leased to Aero Club
Cardinal 177RE	1	Leased to Aero Club

3.3 ELECTRONIC COMBAT - This section is N/A to the 337 TS.

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements.*

-3.3.A.1 What is the number of threats simulated?

N/A

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?
N/A

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom? N/A

-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each. N/A

-3.3.A.5 What is the threat representation (fidelity) and density? N/A

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe. N/A

-3.3.A.7 What geographic dispersion can be simulated? N/A

-3.3.A.7.A Threat lay down? N/A
-3.3.A.7.B Representative distance? N/A

-3.3.A.8 Are the threats moveable (i.e.dynamic) within a test scenario? relocatable to new scenarios? yes/no N/A

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how are you linked? N/A

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain. N/A

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which test support satisfies weapon system test requirements.*

-3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/no. If so, identify the limits and measures to remove them. N/A

-3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated? N/A

-3.3.B.3 What range of spectra can be tested and evaluated? N/A

-3.3.B.4 What are the available spectra? N/A

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe. N/A

3.4 ARMAMENTS / WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements.*

This includes testing of all types of directed energy weapons.

-3.4.A.1 Do you currently test directed energy weapon systems? Yes/No

If yes, explain. Describe the power source(s) you have available. What is your maximum downrange distance?

No.

3.4.B Rocket / Missile / Bomb Systems (MV II) - Measure of Merit: *Extent*

capability satisfies weapon system test requirements.

This includes the testing of all types of rocket, missile, and bomb systems at the system/subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

-3.4.B.1 Ground Space

-3.4.B.1.A What is the area in square miles of the land and water space which you can use to conduct tests of live rocket, missile, or bomb systems?

We use the Fallon, Nellis, Mountain Home, Fallon, Cannon and UTTR ranges but they are not owned by McClellan AFB. Data should be provided by range owners.

-3.4.B.1.B How many separate and distinct land and water test areas are available to conduct tests of live weapons? List them and the size of each in acres.

We use the Fallon, Nellis, Mountain Home, Fallon, and UTTR ranges but they are not owned by McClellan AFB. Data should be provided by range owners.

-3.4.B.1.C What are the maximum ranges (nautical miles) you can test, by type weapon?

750 NM F-111, 250 NM A-10 (single sortie).

3.4.B.2 Test Operations

-3.4.B.2.A For each of your land and water ranges, how many test missions were scheduled in FY92 and FY93 that were required to use safety footprints comparable to those required for the following types of weapons:

--Unguided 2000 pound-class ballistic weapon

---live?
---inert?
--Guided weapon (e.g., GBU-24 class)
---live?
---inert?
--Stand-off weapon (e.g., AGM-130 class)
---live?
---inert?
--Short-range missile (e.g., AIM-9)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL
--Long-range missile (e.g., AIM-120)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL

McClellan does not own or operate any ranges.

-3.4.B.2.B Were flight termination systems required? No.

-3.4.B.2.C If no missions were scheduled in a category, give the reason(s).

Mission only requires flight testing - other categories not required.

-3.4.B.2.D Were any scheduled missions canceled before the mission, or terminated/aborted during the mission because of encroachments into the safety footprint? Yes/no. If yes, how many per year.

No.

APPENDIX A - DATA FORMS AND INSTRUCTIONS

1. Form, General Information

Facility/Capability: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

Origin date: Enter today's date in the format MM/DD/YY.

Military Department: Allowable entries include "N" for Navy, "A" for Army, and "AF" for Air Force. If the facility/capability is managed by an "Other Government Agency" (e.g. ARPA, DNA, ACC) enter the appropriate Agency name.

Organization/Activity: Enter the name (with acronym) for the field activity. Example: White Sands Missile Range (WSMR).

Location: Enter the location where the facility/capability is physically located (installation, city or other common name).

Unit Identification Code (UIC): Enter the UIC.

T&E Functional Area: Enter the single area this facility/capability primarily supports: Air Vehicles, Armament/Weapons, Electronic Combat, or Other.

T&E Test Facility Category: Enter the facility category based on the following definitions:

(1) Digital Models and Computer Simulations (DMS)- Those models and simulations which either provide a simulated test environment or representations

of systems, components, and platforms. DMSs are used throughout the development and test process, as analytical tools, as well as tools to drive or control electronic and other environmental stimuli provided, the test articles on Open Air Ranges (OARs), Installed Systems Test Facilities (ISTFs), Hardware in the Loop Test Facilities (HITLs), Integration Laboratories (ILs), and Measurement Facilities (MFs).

(2) Measurement Facilities (MF)- Those facilities used to provide a specialized test environment and/or data collection capability. MFs may be ground based laboratories or open air facilities (often located at or part of OARs).

(3) Integration Laboratories (IL)- Those facilities designed to support the integration and test of various systems and components that will be installed in a host platform. ILs are generally platform specific or unique. However, the simulated stimuli and data collection capabilities required by ILs are often common with those required by HITLS and ISTFs.

(4) Hardware-In-The-Loop (HITL)- Those facilities which provide capabilities to test systems or their components at various stages of development (e.g., brassboard, breadboard, prototype, preproduction, production). HITLs provide stimuli and data collection capabilities to permit test and evaluation of a system/component independent of the host platform.

(5) Installed Systems Test Facilities (ISTF)- Ground based test facilities (usually chambers) that allow test of systems and weapons as installed in the combat platform. ISTFs provide simulated test environments and stimuli and data collection capabilities for the test article(s).

(6) Open Air Ranges (OAR)- Those facilities which consist of controlled or restricted areas to support the test of platforms/systems in a real world, dynamic environment. They are instrumented with data collection, time-space-position information, positive control of test participants, and real or simulated targets and

threats as appropriate.

Percentage Use: Enter percentage of time, based on hours, the facility is used to support each of the following (total must sum to 100%):

(1) Test and Evaluation (T&E)- Any facility that is accountable to Military Department and/or OSD T&E management oversight. Operation and sustainment of these facilities are typically funded from 6.5 or procurement program elements. Facilities in this category were developed to support developmental and/or operational test and evaluation and focus on the evaluation of system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with system specifications and quality standards.

(2) Science & Technology (S&T)- Any facility that is accountable to Military Department and/or OSD S&T management oversight. Operation and sustainment of these facilities are typically funded from 6.1, 6.2, and 6.3a program elements. Facilities in this category were developed to support experimental studies leading to enhanced understanding of new phenomena for new military applications as well as efforts directed toward the solution of problems in the physical, behavioral, and social sciences.

(3) Developmental Engineering (DE)- Any facility that is accountable to Military Department and/or OSD Research, Development and Engineering or acquisition management oversight. Operation and sustainment of these facilities are typically funded from 6.3b through 6.4 or procurement program elements. Facilities in this category were developed to support proof-of-principle and engineering development of systems.

(4) In-Service Engineering (IE)- Any facility that is accountable to Military Department and/or OSD logistics management oversight. Operation and sustainment of these facilities are typically funded from 6.7 or Operations and Maintenance (O&M) program elements. Facilities in this category were developed to support the maintenance facilities. These facilities tend to be system

peculiar capabilities to conduct checkouts of the system/subsystems after they have undergone a modification, upgrade or improvement.

(5) Training and Doctrine (T&D)- Any facility that is accountable to Military Department and/or OSD training and doctrine management oversight. Operation and sustainment of these facilities are typically funded from O&M program elements. Facilities in this category were developed to support the training and proficiency of operational forces and/or the development of new tactics, doctrine or force structure concepts.

(6) Other - Any work outside the above.

Breakout by T&E Functional Area: For each of the above categories (T&E, S&T, DE, IE, T&D, Other) enter percentage of time facility is used to support Air Vehicles, Armament/Weapons, Electronic Combat, or Other. Total of breakout areas must sum to top line percentage.

2. Form, Technical Information

Facility Description: Enter a brief description of the facility, including the mission statement.

Interconnectivity/Multi-Use of Facility: Describe any linking/interconnectivity with other T&E facilities. Include physical and/or data linkages (bandwidth, data rate, etc.). Describe any unique characteristics or multiple use of the resource (e.g., operating by rotating crew, availability of resource dependent on ..., equipment will be obsolete by ..., etc.)

Type Tests Supported: Enter specific types of tests accomplished by the Facility (e.g., electromagnetic compatibility, radar cross section, missile miss distance, air-to-air radar simulation, etc).

Summary of Technical Capabilities: Describe technical capabilities at your facility to include:

Instrumentation/Assets: Enter instrumentation and other assets (e.g., jammers, target generators, recording equipment, computer support equipment) associated with the resource.

Provide fact sheets, not to exceed two pages.

Keywords: Enter any keywords (spelled-out with acronyms) associated with functions and capabilities of the facility (e.g., electromagnetic interference/electromagnetic compatibility (EMI/EMC), anechoic chamber, radar cross section (RCS)).

3. Form, Additional Information

Additional Information Form. Enter facility name. Provide personnel numbers for FY93, FY94, and each year in the FY95 FYDP broken out according to officers, enlisted, civilians and contractors. Enter total area square footage of indoor space, test area square footage of indoor space used for T&E purposes, and list office space square footage separately. Tonnage of equipment is the weight of all equipment associated with this facility. Volume of equipment is the volume of all equipment associated with this facility. Annual maintenance cost is self explanatory. Moving costs are estimates for packing equipment at the losing site and reassembly, calibration, etc at the receiving site, not including transportation costs. Capital equipment investments are the current improvement and modernization funds as well as any programs funds earmarked for equipment purchase.

4. Form, Facility Condition

Facility/Capability: Enter the descriptive title for the facility/capability.

Age: Indicate the age of the facility/capability as of the date on the General Information Form.

Replacement Value: Enter the replacement value for the facility/capability. Indicate whether this includes the replacement cost for the equipment.

Maintenance and Repair Backlog: Enter the total dollar amount of the backlog for maintenance and repair items.

Date of Last Upgrade: Date of the last major upgrade to the facility.

Nature of Last Upgrade: Describe the purpose and capability increase from the last major upgrade. Indicate the date this upgrade became available for use.

Major Upgrades Programmed: Enter information on each of the major upgrades that are programmed. Indicate the total programmed amount and provide a summary description of the upgrade.

5. Form, Historical Workload

Use this form to report the workload performed at this facility each year from FY86-93.

Facility/Capability Title: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

T&E Functional Area: For each of these functional areas (Air Vehicles, Armament/Weapons, Electronic Combat, Other Test, and Other), enter direct labor hours, test hours, and/or missions for FY86 through FY93. For open air ranges involving flight testing, report test hours and missions. For all other T&E

facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

6. Form, Determination of Unconstrained Capacity

Annual Hours of Downtime, 1: If the facility were required to operate continuously for 24 hours a day, seven days a week, 52 weeks a year, determine the number of hours per day the facility can reasonably operate if it is not constrained by personnel strength? Consider your facilities, equipment, and instrumentation fixed at current levels.

1. Add up the total hours of downtime per year for maintenance, weather, darkness (daylight), holidays, etc. Enter in line 1.

Average Downtime Per Day, 2: Divide line 1 by 365 to get the average downtime per day. Fill in at line 2.

Average Hours Available Per Day, 3: Subtract line 2 from 24 hours to get the average number of hours per day the facility is available for test. Fill in at line 3.

Analyze your historic workload mix to determine the average number and type of tests that have been run simultaneously at your facility. Determine the maximum number of tests that can be run simultaneously if there is no limit to personnel authorizations. Enter the following data from your analysis

Test Types, 4: Enter in column 4 the name of the type of test.

Tests at One Time, 5: List the number of each type of test that can be conducted simultaneously in column 5.

Workload Per Test
Per Facility Hour, 6: List the workload (reported in units as follows: For open air range flight testing, report workload in flight hours and numbers of missions. For all other test facility categories, including open air range other than flight testing, report workload in direct labor hours) represented by each hour the test is run. Do this at line 6.

From the historic workload analysis, determine the average workload per facility hour represented by the average or "typical" test. In the row titled "TYPICAL", in column 5, enter the number of these "typical" tests that can be run in addition to those already listed above. Enter the workload per "typical" test per facility hour in column 6. To estimate test hours from direct labor hours for the Historic Workload Form, divide the facility workload by this number (the number of direct labor hours per "typical" test per facility hour) and enter in the test hour block on the Historic Workload Form.

Workload Per
Facility Hour, 7: Multiply column 5 by column 6. Enter in column 7. Total column 7.

Unconstrained
Capacity Per Day, 8: Multiply the total from column 7 by line 3 to get the unconstrained capacity per average day. Enter in line 8.

Annual
Unconstrained
Capacity, 9: Multiply line 8 by 365 to get the unconstrained capacity per year for the facility. Enter on line 9.

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Bldg 722 337 TS allocation 14,400 SF (of 21,600 SF total facility)
AGE: Built 1957 REPLACEMENT VALUE: $3,215,000 (entire facility), $2,143,00 (337 TS portion)
MAINTENANCE AND REPAIR BACKLOG: 1
DATE OF LAST UPGRADE: None
NATURE OF LAST UPGRADE: N/A

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Alter Electrical System
   TOTAL PROGRAMMED AMOUNT: $190,000
   SUMMARY DESCRIPTION: To conform with National Electrical Code Stanards
2. UPGRADE TITLE: N/A
   TOTAL PROGRAMMED AMOUNT: N/A
   SUMMARY DESCRIPTION: N/A

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HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: 337 TS

		FISCAL YEAR							
T&E FUNCTIONAL AREA		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR	unk	unk	unk	unk	unk	unk	59985	45322
	TEST HOURS	1784	1168	1101	1099	1560	1635	1342	1738
(Sorties)	MISSIONS	1089	772	875	807	976	670	814	1005
EC	DIRECT LABOR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	TEST HOURS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	MISSIONS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ARMAMENT/WEAPONS	DIRECT LABOR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	TEST HOURS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	MISSIONS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
OTHER T&E	DIRECT LABOR	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	TEST HOURS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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MISSIONS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: 337 Flight Test Squadron

ANNUAL HOURS OF DOWNTIME 1 480
AVERAGE DOWNTIME PER DAY (LINE 1÷ 365) 2 1.3
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3 22.7

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAIND CAPACITY PER DAY (LINE 3 X TOTALΣ) 8
Flight Test Data Analysis (FDAPS)	1	26	26	590.2

ANNUAL UNCONSTRAINED CAPACITY 9

–

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	215423 hr/year (not adjusted to maximum FDAPS capacity of 10 sorties per day)
	Maximum capacity check based on the FDAPS limitation of 10 sorties/day: 26 hrs/test hr x 1.6 test hrs/sortie x 10 sorties/day x 365 days/year = 151,840 hrs/yr. Since this number is lower than 215423 hrs/yr FDAPS is the constraint and 151,840 hrs/yr is the maximum unconstrained capacity

TOTAL Σ	151,840

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TECHNICAL INFORMATION

Facility/Capability Title: 337 Flight Test Squadron, SM-ALC/LAA

Facility Description; Including mission statement: Responsible for all aircraft flight testing conducted at the Sacramento Air Logistics Center. Conducts developmental test and evaluation on engineering modifications to A-10 and F/EF-111 weapon systems. Performs functional check flights and acceptance flight tests on depot and contractor repaired A-10, F/EF-111, F-15, and KC-135 aircraft. Provides enhanced combat capability to the United States Air Force.
Interconnectivity/Mulit-Use of T&E Facility: None.

Type of Test Supported: Engineering Test missions and functional check flights.
Summary of Technical Capabilities: Aircraft instrumentation with Flight Data and Processing System (FDAPS). Data collection in flight. Data analysis post flight.
Keywords: Flight Data and Processing System (FDAPS). 337 Flight Test Squadron (337TS)

GENERAL INFORMATION

Facility/Capability Title: 337 Flight Test Squadron

Origin Date: 19 May 94

Service: AF

Organization/Activity: 337TS

Location: McClellan AFB

Complete form for FY93

T&E Functional Area: Air Vehicles

UIC = Unk

T&E Test Facility Category Measurement Facility

OTHER =100%	T&E	S&T	D&E	IE	T&D
PERCENTAGE USE:	0	0	9	91	0

0

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	0	0	0	100	0

0

054

Service: AF
Organization/Activity: 337TS
Location: McClellan AFB
Complete form for FY93

T&E Functional Area: Air Vehicles
UIC = Unk

T&E Test Facility Category Measurement Facility

	T&E	S&T	D&E	IE	T&D	OTHER =100%
PERCENTAGE USE:	0	0	9	91	0	0

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	0	0	0	100	0	0
Armanent/Weapons	0	0	0	0	0	0
EC	0	0	0	0	0	0

Document Separator

T&E PERCENTAGES

SITE/ACTIVITY: VARIOUS AF LABS

FACILITY	TOTAL % T&E	AV	A/W	EC	OTHER
ROME LAB					
ANTENNA MSMT + ANALYSIS	Ø	–	–	–	–
ELECTROMAGNETIC ENV EFFECTS	Ø	–	–	–	–
WRIGHT LAB AERO PROPULSION AND POWER					
PROPELLER RESEARCH FACILITY	100	100	Ø	Ø	Ø
HELICOPTER ROTOR	100	100	Ø	Ø	Ø
WRIGHT LAB MATERIALS DIRECTORATE					
LASER HARDENED MATERIALS	Ø	–	–	–	–
OPTICAL MEASUREMENT	Ø	–	–	–	–
ULTRASONICS + X-RAY	Ø	–	–	–	–
COMPOSITES SUPPORTABILITY	Ø	–	–	–	–
WRIGHT LAB AVIONICS DIRECTORATE					
ANECHOIC CHAMBERS + EXPLOITATION	10	Ø	Ø	100 10 NP	Ø
WRIGHT LABS FLIGHT DYNAMICS					
STRUCTURES RESEARCH FACILITY	10	10	Ø	Ø	Ø
FLIGHT CONTROL ACTUATION	20	20	Ø	Ø	Ø
NT-33A IN-FLIGHT SIM	14	14	Ø	Ø	Ø
NC-131H IN-FLIGHT SIM	12	12	Ø	Ø	Ø
NF-16D IN-FLIGHT SIM	?	?	?	?	?
AIRCRAFT SURVIVABILITY	50	50	Ø	Ø	Ø
AFTI/F16	80	40	40	Ø	Ø
ARMSTRONG LAB					
SYSTEM INTEGRATION DESIGN	25	25	Ø	Ø	Ø

R. Doug Nation 25 Aug 94
SIGNATURE DATE

SIGNATURE DATE

SIGNATURE DATE

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To document the answers to questions:

3.1.C.2	3.1.H.8	3.2.B.3	3.2.C.7	3.3.7.B	3.4.B.1
3.1.C.5	3.1.H.9	3.2.B.4	3.2.C.8	3.3.A.8	3.4.B.1.A
3.1.G.2	3.2.A.1	3.2.B.5	3.3.A.1	3.3.A.9	3.4.B.1.B
3.1.G.3	3.2.A.2	3.2.B.6	3.3.A.2	3.3.A.10	3.4.B.1.C
3.1.G.4	3.2.A.3	3.2.C.1	3.3.A.3	3.3.B.2	3.4.B.2
3.1.G.5	3.2.A.4	3.2.C.2	3.3.A.4	3.3.B.5	3.4.B.2.A
3.1.G.6	3.2.A.5	3.2.C.3	3.3.A.5	3.4	3.4.B.2.B
3.1.G.7	3.2.A.6	3.2.C.4	3.3.A.6	3.4.A	3.4.B.2.C
3.1.G.8	3.2.B.1	3.2.C.5	3.3.A.7	3.4.A.1	3.4.B.2.D
3.1.H.1	3.2.B.2	3.2.C.6	3.3.7.A	3.4.B	

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30)PMD 64256F PROJ 3321
RL/ERS program element database as of 1 Aug 1994
RADC C3 & Protective Systems Evaluation Facilities, dated Jun 89

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Based on careful study of the above documentation and mission statement to assess the technical capabilities, requirements, and characteristics of the Rome Laboratory Antenna Measurement & Analysis Facility.

CONCLUSION: Each of the above questions is not applicable to the Rome Laboratory Antenna Measurement & Analysis Facility. As a ground antenna test facility, we are not dependent on factors such as encroachment, environmental, air/land/sea/space, public use of space, ramp space, runways, topography, ground vegetation, threats, armaments and weapons, and directed energy weapons.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.1.B.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

AF/TE 0111(30)PMD 64256F PROJ 3321 dated 20 Mar 92
RL/ERS program element database as of 1 Aug 1994
Program Summary by Project PCN H310079E dated end of each fiscal year

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: This info was derived from RL/ERS Data Base. It is supported by BEAs, MIPRs, Fund Cite Authorizations, Project Orders and Procurement Directives located in the RL/ERS Division Office. We support two functional areas by definition, they are electronic combat and other test. This is the only source of this type of information.

CONCLUSION: Q2.1.B.1 Identify all appropriations (by PE) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department for FY92, FY93 and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above?

SEE ATTACHMENT #1

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

Q2.1.B.1 (ATTACHMENT #1)

The functional area of the Rome Lab Antenna Measurement & Analysis Facility is primarily electronic combat. We do support some S&T program elements.

ELECTRONIC COMBAT:

FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99
63789F	63789F	64770F	64226F	64329F	64329F	64329F	64329F
27134F	64735F	Navy	64329F	ANG	27134F	27134F	65130D
63605F	Navy	ANG(ECIPS)	27134F	65130D	65130D		
64735F	ALC	64256F	65130D	64236F			
27423F	64211F	COML	ANG	WRALC			
WRALC	64239F	PL	WRALC				
63790D	63605F	35885G	Navy				
35885G	64770F	64733F	COML				
65807F	35889F	64770F	EF-111				
63270F	65130D	ANG(C130)	27134F				
64733F	ESC		63789F				
69120C	PL		63270F				
399991	63270F						
DCA	59220F						
AFFTC	64755F						

S&T (OTHER TESTS):

FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99
62702F	62702F	62702F	62702F	62702F	62702F	62702F	62702F

Where organization is shown in place of PE it is because the PE was not shown on the fund cite authorization, project order, MIPR or procurement Directive received by RL.

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.1.B.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Gerald Leppert, DSN 587-3075, RL/ERSS
Contract F30602-90-C-0080 manning
Contract F30602-88-C-0051 manning
JOCAS Labor Charges
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Review of contract manning, JOCAS and facility labor charges. The number 1776 hours was used to convert to years.

CONCLUSION: Q2.1.B.2 What amount of test work was performed at your facility (in workyears, by functional area) in FY92 and FY93?

TEST WORK	FY92	FY93
ELECTRONIC COMBAT		
Direct Labor	14.9	14.1
Test Years	1.3	1.2
C3 (OTHER)		
Direct Labor	14.9	14.1
Test Years	1.3	1.2

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.2.B

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q2.2.B. Is the capacity limited by the physical characteristics of the facility itself, safety, or health considerations, commercial utility availability etc.? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

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INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.3.A

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AFMC War and Mobilization Plan, dated Sep 93

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.2.3.A Does the facility have a specified war-time or contingency role established in approve war plan? YES/NO

No Specific role. During war fighting, the Laboratories are a technical resource to the Product and Logistics Centers.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

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INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.3.B

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?

NO - The current host installation does not have a test mission.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.3.B.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.2.3.B.1 On the test mission of any other activity? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.2.3.B.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund lin that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to suppor a conclusion other than the one arrived at below.

CONCLUSION: Q.2.3.B.2 On any other mission deemed critical to the operational effectiveness of the Armed Forces of the US? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.A.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

AF/TE 0111(30) PMD 64256F PROJ 3321 dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.3.1.A.1 What percentage of total test workload in FY93 involved the real time or near real time exchange of data or control with another facility?

No real time/near real time data exchange is involved with this antenna test facility.

List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal or external.

There are no interconnected facilities or simultaneous activities.
None are internal or external to the site.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.A.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

AF/TE 0111(30) PMD 64256F PROJ 3321 dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was derived from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.A.2 If facility were to be closed, would there be an impact on other facilities? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.C.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

AF/TE 0111(30) PMD 64256F PROJ 3321 dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89

MISSION STATEMENT: (AF/TE PMD 0111(30) dated 20 Mar 92) directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.C.1 Do you have limiting environmental and/or encroachment characteristics associated with the installation/facility? NO*

***A similar, but not exact question was reported on the Rome Laboratory JCS data call Q.1.2**

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.C.3

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is als the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

AF/TE 0111(30) PMD 64256F PROJ 3321 dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91 dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities, RADC TR 89-74 Jun 89

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. There is nothing in any other known documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements of any sort that deal with the environment?

Temporary environmental permits.	NO
Voluntary agreements	NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.C.4

SOURCE: World Book Encyclopedia dated 1992 and Rand-McNally World Book Atlas, dated 199: (population figures based on 1990 census); Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, Rome Lab/ERST, DSN 587-2841; and Mr Thomas E Baustert, GM-14, Rome Lab/ERS, DSN 587-4217

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Engineering Estimate - Answer was estimated based on map population data in the references. This is an estimate, not an exact number. Circles were drawn and major population centers added together to obtain estimated population.

CONCLUSION: Question 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?

Population within	50 Miles	1 Million estimated
	100 Miles	2.6 Million estimated
	150 Miles	7.6 Million estimated
	200 Miles	32 Million estimated

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.C.5.A

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Tom Lindsay, Rome Research Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: We do not record this information so there is no specific documentation to answer this specific question. The method used was an interview with Mr. Tom Lindsay (facility contractor) who has been the Rome Research supervisor in charge of the facility for 17 years and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facility. There is nothing in any other documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.C.5.A How many test missions per year are cancelled due to commercial or public use? NONE

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.C.6

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Tom Lindsay, Rome Research Corp, Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: We do not record this information so there is no specific documentation to answer this specific question. The method used was an interview with Mr. Tom Lindsay (facility contractor) who has been the Rome Research supervisor in charge of the facility for 17 years and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facility. There is nothing in any other documentation to support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.C.6 Test missions cancelled due to encroachment in each of the last 2 years. NONE

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.D.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.

HQ AFMC/XPM letter 15 Jul 94, "Transfer of Authorizations from ACC to AFMC".

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The shops shown in the conclusion are currently part of Griffiss AFB. They are being transferred to Rome Lab (because of GAFB realignment) as shown in HQ AFMC/XPM letter 15 Jul 94, "Transfer of Authorizations from ACC to AFMC".

CONCLUSION: Q.1.D.1 Are there any specialized facilities required to support test operations? YES

Sheet Metal Shop	Machine Shop
Paint Shop	Pattern Shop
Welding Shop	Corrosion Control Shop
Plastics Shop	

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.D.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities
RADC TR 89-74, dated Jun 89
Mr. Jack Koscielniak, RL/ERSE, DSN 587-4501

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The answer was extracted from the above documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities and verbal information derived from Northeast Test Area (NETA) supervisor Mr. Jack Koscielniak, RL/ERSE DSN 587-4501.

CONCLUSION: Are specialized targets required? YES, however, they may not be the kind of targets specified in the question.

A very small percentage of our total workload involves the Northeast Test Area (NETA). The Northeast test area (part of Stockbridge Antenna Range) uses non-functional military vehicles such as tanks, trucks, mobilized guns, jeeps, etc. Along with simulated anti-aircraft artillery (AAA), surface-to- air-missile (SAM) and trench warfare sites.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.D.2.A

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities RADC TR 89-74 Jun 89
Mr. Jack Kocielniak, RL/ERSE, DSN 587-4501
Grid maps, target validation ID cards, tech memo's and TOs on 70 different targets are maintained in RL/ERSE.

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The answer was extracted from the above documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities and data derived from grid maps, TMs, and TOs maintained by the NETA supervisor Mr. Jack Koscielniak, RL/ERSE DSN 587-4501.

CONCLUSION: Q.1.D.2.A Have specialized targets been validated? Yes - through use of target validation identification cards, TMs and Tech Orders maintained by Mr. Koscielniak in Rl/ERSE. Precise location during a test is known and documented. Location changes from one test to another.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.E.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities RADC TR 89-74, dated Jun 89
AF/TE PMD 0111(30) dated 20 Mar 92

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question. The answer was based on a review of the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in the operation and management of the facilities. There is no other known documentation that would support a conclusion other than the one arrived at below.

CONCLUSION: Q.1.E.1 Other than the expendability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.E.1.A

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities RADC TR 89-74, dated Jun 89
AF/TE PMD 0111(30), dated 20 Mar 92

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The answer was derived from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. RL is a laboratory, not a T&E facility as such. It is highly unlikely that RL senior management would devote additional laboratory manpower to Antenna Measurement & Analysis Facility T&E since we recently lost 6 T&E related positions through the Defense Management Reduction (DMR) process. However, the possibility does exist since Rome Lab is becoming a stand alone organization.

CONCLUSION: Q.1.E.1.A Can you accept new T&E workload different from what you are currently performing? YES

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.E.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is als the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities RADC TR 89-74, dated Jun 89
DoD Base Closure and Realignment Report, Mar 93

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. Griffiss AFB is undergoing BRACC directed realignment at the present time. RL as a Defense retained property is a stand alone organization. The land adjacent to RL is suitable for physical expansion, however, it is controlled by BRACC decisions.

CONCLUSION: Q.1.E.2 Are airspace, land and water areas available and/or suited for physical expansion to support new missions or increased footprints? YES

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.E.3

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
Rome Laboratory Security Office (Mr. J. Holt, DSN 587-2916)
F-22 Security Procedures for Newport Research Facility (Irish Hill), dated 2 May 94

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. The F-22 Security Guide specifically identifies Special Access Required. RL Security Office/Mr. James Holt, DSN 587-2916 can confirm this.

CONCLUSION: Q.1.E.3 Is facility equipped to support secure operations? YES

Newport and Stockbridge have been approved up to SECRET. The Newport Range has approval for F-22 SPECIAL ACCESS REQUIRED.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.E.4

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is als the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Antenna Measurements & Analysis Facility Five Year Plan, 2 Jan 94

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. Capital improvements in the area of instrumentation upgrades are part of the Rome Laboratory Antenna Measurement & Analysis Facility.

CONCLUSION: Q.1.E.4 Are capital improvements underway or programmed in 95 FYDP that would change capacity/capability?

YES - Equipment and instrumentation will be purchased to allow us to stay current with the state-of-the-art in antenna measurement technology.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.F.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
(CLASSIFIED) Radar & Antenna T&E Document dated December 1992

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. The uniqueness was determined by a literature search of all antenna measurement & analysis facilities in the United States included in the Radar & Antenna T&E document dated Dec 92. This document was in response to the T&E Test Improvement Planning Process (TIPP).

CONCLUSION: Q.1.F.1 Is this a one-of-a-kind facility within the DoD?* YES

The Rome Lab antenna measurement and analysis facilities are the only elevated, far-field, low reflectivity ranges in the DoD. These unique facilities are the only one capable of evaluating new ultra low sidelobe antennas. There are other antenna ranges in the DoD, but they all fall far short of the capability provided by Rome Lab. The following full size testbeds are unique to Rome Lab: F-4, RF-4, F-16, F-15, B1-B, A-10, F-111, F-22, C-130, B-52 and KC-135.

*This answer was reported on the Rome Laboratory JCS Lab data call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ DATE:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.F.1.A

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
(CLASSIFIED) Radar & Antenna T&E Document dated December 1992

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. The uniqueness was determined by a literature search of all antenna measurement & analysis facilities in the United States included in the Radar & Antenna T&E document dated Dec 92. This document was in response to the Test Improvement Planning g Process (TIPP).

CONCLUSION: Q.1.F.1.A Is this a one-of-a-kind facility within the US Government? YES

No other Government Department or Agency has elevated, far-field, low reflectivity antenna ranges with full size F-4, RF-4, F-16, F-15, B1-B, A-10, F-111, F-22, C-130, B-52 or KC-135 testbeds

*This answer was reported on the Rome Laboratory JCS Lab data call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ DATE:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.F.1.B

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
(CLASSIFIED) Radar & Antenna T&E Document dated December 1992

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. The uniqueness was determined by a literature search of all antenna measurement & analysis facilities in the United States included in the Radar & Antenna T&E document dated Dec 92. This document was in response to the Test Improvement Planning Process (TIPP).

CONCLUSION: Q.1.F.1.B Is this a one-of-a-kind facility within the US?* YES

There is no civilian contractor with an elevated, far-field, low reflectivity antenna range with access to full size aircraft testbeds such as the : F-16, F-15, F-4, A-10, RF-4, F-111, F-22, B1-B, KC-135, B-52 or C-130.

*This answer was reported on the Rome Laboratory JCS Lab data call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ DATE:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.F.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
RL/ERS, Program Element database as of 1 Jul 94
Program Summary by Project PCN H310079E, dated 30 Sep 92 and 30 Sep 93
Rome Lab Management Information System as of 30 Sep 93

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities. Over the years we have provided support to Army, Navy, Air Force and Civilian Defense Contractors. During FY92/93 we provided minimal support to the Navy. Percentage was based on cost of effort versus total cost per year.

CONCLUSION: Q.1.F.2 Are you currently providing support to DoD users outside your military department? YES

FY92	Navy	5% est
FY93	Navy	5% est

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.G.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC C3 & Protective Systems Evaluation Facilities RADC TR 89-74, Jun 89
PE 64256F Review Briefing for AF/TE dated 23-24 Mar 94-Filed in project folder

METHOD: Conversion of 300 acres of government-owned landspace to square miles of available land space. The Air space above the landspace available but since we are a ground based measurement capability and we do not utilize air space to accomplish our mission. There is no sea space involved.

NOTE: There are 27,878,400 square feet in one square mile. There are 43,560 square feet in one square acre. This equates to approximately 0.5 square miles of land space since we have 300 acres.

CONCLUSION: Q.1.G.1 How many square miles of air, land, sea space are available to support test operations?

Air space	N/A
Sea space	N/A
Land space	approximately 0.5 sq miles

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.2

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
Mr. Tom Lindsay, Rome Research Corp Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was extracted from the above available source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities and an interview with Mr. Tom Lindsay. Mr. Lindsay has been the contractor facility supervisor for 17 years. Geology or soil conditions have no affect on the Antenna Measurement and Analysis Facilities. There is no other known source of documentation that would support a conclusion other than the one below.

CONCLUSION: Q.1.H.2 Are there features of local geology or soil conditions that enhance or inhibit any types of tests. NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.3

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
AF/TE 0111(30) PMD 64256F PROJ 3321, dated 20 Mar 92
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
Mr. Tom Lindsay, Rome Research Corp Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The answer was derived from the above source documentation after an assessment of the technical capabilities, requirements, and characteristics of the Antenna Measurement & Analysis Facilities and the professional judgement of Mr. Baustert with 10 years experience in operation and management of the facilities and an interview with Mr. Tom Lindsay facility contractor supervisor for the last 17 years. All known antenna measurement and analysis programs can be and have been performed at the RL Facilities. There is no other known documentation that would support a conclusion other than the one below.

CONCLUSION: Q.1.H.3 Do you have to go to other geographical locations to satisfy test requirements? NO

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.4

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
MSgt Lambino, 416OSS/OSW (Weather Station)
AWS Climatic Brief Dated Apr 90

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Mean monthly temperature (not average) was derived from AWS Climatic Brief Dated Apr 90, provided by the Griffiss AFB Weather Station. The weather station does not record average temperature as called out in the question.

CONCLUSION: Q.3.1.H.4 What is the number of days per year the average temperature is below 32, 32-95, above 95? We do not have average temperature data. However, the following data shows the months the monthly mean temperature was in the range specified.

below 32F	Dec, Jan, Feb, Mar
between 32-90F	Apr, May, Jun, Jul, Aug, Sep, Oct, Nov
above 90F	None

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.5

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
MSgt Lambino, 416OSS/OSW (Weather Station)
AWS Climatic Brief Dated Apr 90, DSN 587-3444

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Answer was derived from the AWS Climatic Brief Data dated Apr 90. The Base Weather Station does not record average relative humidity data as called out in the question.

CONCLUSION: Q.1.H.5 What is the number of days per year the average relative humidity is below 30%, 30-80%, above 80%? Specific data on average relative humidity is not recorded. However, the number of months where the relative humidity is between the limits specified is as shown.

Below 30%	None
30-80%	Jan-Jul, Dec
above 80%	Aug- Nov

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.6

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Tom Lindsay, Rome Research Corp Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: There is no specific documentation that answers this specific question.
The method used was discussions with Facility Contractor (Mr. Tom Lindsay) and the RL definition of a test mission. Mr. Lindsay has been the facility contractor supervisor for 17 years. RL defines a test mission as a whole measurement program which may take several days or weeks to complete. We have never cancelled a test mission because of weather.

CONCLUSION: Q.1.H.6 Number of test missions cancelled per year from 1985 to 1993? NONE (In any year)

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.7

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Tom Lindsay, Rome Research Corp Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: We do not record this data. Conclusion is based on conversations with Facility Contractor (Mr. Tom Lindsay). As per our definition of test mission (Q.1.H.6) we may lose a few days (varies from year to year) because of severe weather. Mr. Lindsay has been the facility contractor supervisor for 17 years. There is no exact answer, that is why our answer is appropriate.

CONCLUSION: Q.1.H.7 Number of test days per year (1985-1993) cancelled due to weather?

Approximately 5 days per year (varies from year to year) due to snow, high winds or electrical storms.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E. Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.1.H.10

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Mr. Tom Lindsay, Rome Research Corp Facility Contractor, DSN 587-2503

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: We do not record this type of data. Conclusion was based on discussions with Mr. Tom Lindsay, the facility contractor supervisor for the last 17 years. We are occasionally affected by high winds, snow and lightning. We do not keep specific records of exactly how much time is lost because we do not completely shut down operations. There is always something that has to be done at the facility regardless of the weather.

CONCLUSION: Q.1.H.10 Percentage of time test operations are restricted due to weather?

Approximately 1 to 2%

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.3.B.1

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC, C3 & Protective System Evaluation Facilities RADC TR 89-74 Jun 89

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: Data was derived from RADC, C3 & Protective System Evaluation Facilities TR 89-74 RL and TR-93-91 which provide detailed descriptions of the facility.

CONCLUSION: Q.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? YES - We are an antenna measurement and analysis facility. Our full size aircraft testbeds are mounted on 3 axis positioners which are limited to a total weight of 25 tons. We use current state-of-the-art positioners capable of handling every testbed we have.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.3.B.3

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is also the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91, dated Apr 93
RADC, C3 & Protective System Evaluation Facilities RADC TR 89-74 Jun 89

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The only "Spectra" we use is Radio Frequency Spectrum. The conclusion was derived from information in RL TR-93-91 "Rome Laboratory Facilities Register" and RADC C3 & Protective Systems Evaluation Facilities TR 89-74.

CONCLUSION: Q.3.B.3 What range of spectra can be tested and evaluated? 30 MHz to 50 GHz radio frequency spectrum.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

INSTALLATION WORKSHEET
ROME LABORATORY
ANTENNA MEASUREMENT AND ANALYSIS FACILITY

PURPOSE: To summarize answer to Q.3.3.B.4

SOURCE: Mr. Thomas E. Baustert, DSN 587-4217, Rome Lab/ERS - Mr. Baustert is the supervisor in charge of the Rome Laboratory Antenna Measurement & Analysis Facility. He is alsc the Program Element Manager of the fund line that supports this facility. He has been in this job for 10 years. A copy of his position description is attached to the installation copy of the worksheets.
Rome Laboratory Facility Register, RL-TR-93-91
RADC, C3 & Protective System Evaluation Facilities Brochure, RADC TR 89-74 Jun 89
Reference Data for Radio Engineers, Fifth Edition, dated 1972
Electromagnetic Spectrum Chart, undated

MISSION STATEMENT: AF/TE PMD 0111(30) dated 20 Mar 92 directs Rome Laboratory to operate maintain and add improvements and upgrades to the antenna measurement and analysis facility, ranges, landspace, data acquisition reduction and analysis capability, instrumentation and testbeds as necessary to meet current and evolving technology in support of user requirements. These ground based antenna test facilities do not use air space, threat environments, test armaments and weapons, or have environmental and/or encroachment problems.

METHOD: The frequency spectrum available in the United States is controlled by the Government and assigned by international treaty. According to Page 1-2 of the Reference Data For Radio Engineers, the available radio frequency spectrum ranges from 30 Hertz to 3 Terahertz. We currently have instrumentation to cover the entire frequency spectra necessary to perform our mission.

CONCLUSION: Q.3.B.4 What are the available spectra? The radio frequency spectrum available ranges from 30 Hertz to 3 Terahertz. Realistically the lower limit is 10 KHz.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E. Baustert, GM-14 Date: 10 Aug 94
RL/ERS, DSN 587-4217

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer:_____ Date:_____

GENERAL INFORMATION

FACILITY/CAPABILITY TITLE: Rome Laboratory Antenna Measurement & Analysis Facility

ORIGIN DATE: 10 Aug 94

SERVICE: Air Force **ORGANIZATION/ACTIVITY:** Rome Laboratory **LOCATION:** Griffiss AFB, NY

T&E FUNCTIONAL AREA: Electromic Combat **UIC:** _____

T&E TEST FACILITY CATEGORY: Measurement

PERCENTAGE USE: =100%	T&E	S&T	DE	IE	T&D	OTHER
		15	85			

BREAKOUT BY T&E FUNCTIONAL AREA (%):

	T&E	S&T	DE	IE	T&D	OTHER
AIR VEHICLES						
ARMAMENT/WEAPONS						
EC			50			
OTHER (C4I)		15	35			

*NOTE: By your definition of T&E in the instructions, T&E is typically funded by 6.5 or procurement program elements. This facility is typically funded by 64256F which meets the instructions definition of DE. However, we do support the EC and C4I test process as indicated.

Total in Breakout Must Equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: Rome Laboratory Antenna Measurement & Analysis Facility

Facility Description; Including Mission Statement: The Rome Laboratory Antenna Measurement and Analysis Facility is made up of 2 separate ranges, Newport and Stockbridge. These ranges require very quiet Radio Frequency (RF) environments with very low reflections from surrounding terrain and objects.

Newport

Newport is unique because it is the only elevated, far field, low reflectivity antenna range in the DOD. Newport is uniquely situated on two hill tops, 1 1/2 miles apart (connected via fiber optics), and separated by a valley over 400 feet deep. The separation is required to ensure measurements are performed in the "far field". Far field separation is required to ensure a plane wave illuminates the antennas under test and is essential to accurate and representative antenna pattern measurements. The deep valley is essential to low reflections which is a must for the measurement of modern ultra low sidelobe antennas. In order to reduce the reflections even further RL uses terrain grading and signal processing techniques to obtain a measurement capability of -60 DB (1/1,000,000 of the main beam) which is required to evaluate new conformal array radar technology antennas(CART). Without the deep valley the other techniques would not come close to providing the degree of reflection reduction required. Newport is the only facility in the world that has the following full size, actual aircraft test beds available for testing: F-15, F-16, F-4, A-10, RF-4, F-111, and the new F-22. Newport also has the only fully operational F-16 Electromagnetic Effects Test Bed that can be used for test, evaluation and experimentation.

Stockbridge

Stockbridge is used as an antenna measurement and analysis range and is also a component of the Northeast Test Area (NETA). The type of antenna measurements and analysis performed at Stockbridge require a very electromagnetically quiet mountain top location with a large flat area (1/2 mile in all directions) immediately adjacent to the facility. Stockbridge has a one-of-a-kind very heavy duty positioner required to support and rotate very large aircraft. Stockbridge is the only facility in the DOD that can provide a computer controlled hemispheric antenna measurement capability and has the following full size actual aircraft test beds: C-130, B-52, B-1B and KC-135. Stockbridge is a major component of the Northeast Test Area. The NETA is unique to this part of the United States and consists of open field and wooded area representative of the topographical features found in the worlds temperate zones, particularly in Europe. The NETA is divided into eight sectors and includes a military equipment display area with over 70 military vehicles such as tanks, jeeps, trucks, armored personnel carriers and mobilized guns. The range also contains simulations of a surface to air missile site, an anti aircraft artillery site, three mortar pits, a trench warfare complex, and a field supply point. The NETA is used to test and evaluate new airborne reconnaissance sensors and to evaluate concealment and deception techniques.

Interconnectivity/Multi-Use of T&E Facility: We are a stand alone antenna measurement and analysis facility.

Type of Test Supported: Antenna systems evaluation and EW systems evaluations.

Summary of Technical Capabilities: Full size aircraft testbeds as follows: F16, F15, F4, F22, RF4, F111, B1, B52, C130 KC135. Heavy duty 3 axis positioners for mounting aircraft testbeds on towers. Antenna pattern recording instrumentation covering 100 MHz to 60 GHz frequency range. Hemispherical antenna measurement system for large airframes (C130, KC135, B1B, B52).

Keywords: Airborne Antenna/Airframe Effects, Antenna Measurements, Electronic Combat, Antenna Systems, Far-field Range, Aircraft Testbeds, Computer data reduction and analysis capability, state-of-the-art automatic antenna data acquisition system.

ADDITIONAL INFORMATION

FACILITY/CAPABILITY TITLE: Rome Laboratory Antenna Measurement & Analysis Facility

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	0	0	1	1	1	1	1
Enlisted	0	0	0	0	0	0	0
Civilian	11	9	9	9	9	9	9
Contractor	18.5	20	20	20	20	20	20
Total	29.5	29	30	30	30	30	30

Total Square Footage: 39,100

Test Area Square Footage: 31,280*

Office Space Square Footage: 7,820

Tonnage of Equipment: Not Available

Volume of Equipment: Not available

Annual Maintenance Cost: $120,000

Estimated Moving Cost: Facility not moveable
Use facility replacement cost $15.75M

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
400,000	$403,000	$405,000	$400,000	$430,000	$450,000	$500,000

his answer was reported on the Rome Laboratory JC. .b data call Q.3.4.1.

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Rome Laboratory Antenna Measurement & Analysis Facility

AGE: 22 years

REPLACEMENT VALUE: $38,001,733*
$15,745,000 Facility, $22,256,733 Equipment

MAINTENANCE AND REPAIR BACKLOG: Cost estimate not available from Griffiss AFB CE

DATE OF LAST UPGRADE: 1993

NATURE OF LAST UPGRADE: Addition of Butler Building for aircraft modification and instrumentation.

MAJOR UPGRADES PROGRAMMED

1. **UPGRADE TITLE:** Facility infrastructure improvement.
   TOTAL PROGRAMMED AMOUNT: $2,175,000 from 5 year plan
   SUMMARY DESCRIPTION: Antenna test range improvements needed to reduce reflections, increase accuracy and ensure the range is capable of evaluating new ultra low sidelobe antennas.

2. **UPGRADE TITLE:** Facility instrumentation upgrade
   TOTAL PROGRAMMED AMOUNT: $476,000
   SUMMARY DESCRIPTION: Upgrade computer network and instrumentation necessary to evaluate new technology conformal array (SMART SKIN) antennas.

***This answer was reported on the Rome Laboratory JCS Lab data call Q.3.4.1.**

HISTORICAL WORKLOAD

Facility/Capability Title: Rome Laboratory Antenna Measurement & Analysis Facility

T&E FUNCTIONAL AREA		FISCAL YEAR 86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC - 50%	DIRECT LABOR	25750	25750	31524	35964	36408	31968	25752	24420
	TEST HOURS	2200	2500	2700	3100	3100	2760	2200	2100
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER (C3) -50%	DIRECT LABOR	25750	25750	31524	35964	36408	31968	25752	24420
	TEST HOURS	2200	2500	2700	3100	3100	2760	2200	2100
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Antenna Measurement Facilities (Newport/Stockbridge)

ANNUAL HOURS OF DOWNTIME	1 3,500
AVERAGE DOWNTIME PER DAY (LINE 1 S 365)	2 9.6
AVERAGE HOURS AVAILABLE PER DAY (24-LINE 2)	3 14.4

TEST TYPES	MAXIMUM TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	UNCONSTRAINED WORKLOAD PER FACILITY HOUR	CAPACITY PER DAY (LINE 3 X TOTAL 7)
4	5	6	7	8 1,206
Antenna Measurements				
				ANNUAL UNCONSTRAINED CAPACITY
"TYPICAL"	7	11.56	80.92	9 440,190
		TOTAL 7	99.48	

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INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.1.B.1

SOURCE: Rome Lab Management Information System, Report H310079E, Program Summary by Project, dated 30 Sept 92 and 93, and 30 June 1994 (hardcopies on file); HAVE NOTE Project Briefing, dated 18 J ul 94, (hardcopies on file); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), DSN 587-2841, Rome Lab/ERS

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Professional Judgement - Extract data from Documentation. It is supported by briefed schedules, BEA, MIPR, Fund Cite Authorizations, Project Orders and Procurement Directives.

CONCLUSION: Question 2.1.B.1 Identify all appropriations for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

FY92	FY93	FY94	FY95	FY96	FY97	FY98	FY99
ARMAMENT/WEAPONS							
64747F	64747F	64256F	64256F	64256F	64256F	64256F	64256F
27163F	27163F	27163F	27163F	27163F	27163F	27163F	27163F
64607F	64607F	64607F	64607F	64607F	64607F		
64226F	64226F	64602F	64602F	JDAM	JDAM	JDAM	JDAM
64733F	64733F				JSOW	JSOW	JSOW
63605F	63605F				GPS	GPS	
OTHER(C4I)							
62702F	62702F	62702F	62702F	62702F	62702F	62702F	62702F
		920D	920D				
			921B	921B			

*JDAM, JSOW, GPS Program Element Codes are not known.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.1.B.2

SOURCE: Contract F30602-90-C-0080 monthly C/SSR and Contract Status reports from 15 Aug 90 to present (hardcopies on file); JOCAS labor charges year end reports 30 Sept 1992 and 1993 (hardcopies on file); Mr Thomas E Baustert, GM-14, DSN 587-4217, Rome Lab/ERS; and Mr Gerald Leppert, Contract Monitor, GS-12, DSN 587-3075, Rome Lab/ERSS.

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract and summarize manning and work performed by government and contractor personnel.

CONCLUSION: Question 2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Armament/Weapons (See Historical Workload Chart)

	FY92	FY93
Direct Labor	12.78	7.58
Test Years	2.33	1.39

S&T

Direct Labor	2.54	1.33
Test Years	.9	.44

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.2.B

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc.?

No. Unconstrained capacity is limited only by manning and funding.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.3.A

SOURCE: AFMC War and Mobilization Plan dated Sep 1993; and Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the requirements on our facilities and databases, and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? Yes/No.

No specific role. During war fighting, the Laboratories are a technical resource to the Product and Logistics Centers. During Operation Dessert Storm, specific questions were answered on vulnerabilities of friendly and hostile weapon systems

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.3.B

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?

No. Griffiss AFB does not have a T&E mission.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.3.B.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 2.3.B.1 Does the facility provide a T&E product or service without which irreparable harm would be imposed on the test mission of any other activity?

Yes. Munitions System Project Offices (SPOs) are required by their Force Program Management Direction to evaluate missile electromagnetic vulnerability at the HAVE NOTE facilities. Many Air Force missiles did not function as expected in Vietnam due to Electromagnetic Vulnerability problems. Rome Laboratory discovered the cause of the problems and the HAVE NOTE program performs testing during the acquisition cycle to eliminate costly retrofit.

Test planning data is supplied to AFOTEC for operational T&E

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 2.3.B.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 2.3.B.2 Does the facility provide a T&E product or service, without which irreparable harm would be imposed on any other mission deemed critical to the operational effectiveness of the armed forces of the United States?

Yes. Data derived from HAVE NOTE testing is used to specify limits of engagement for precision guided munitions. This data is used to select weapons and determine employment strategy by the war fighter

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.A.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.

None. The E3RC is a stand alone Electromagnetic Vulnerability Assessment center for Precision Guided Munitions. We do not directly interconnect to any other facility.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.A.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/No. If yes, explain.

Yes, although not directly interconnected, the electromagnetic vulnerability data collected is used by Weapon System Program Offices during development, by AFOTEC to plan ground and flight test programs, and end users in mission planning.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question: 3.1.C.1.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility? Yes/No. If yes, explain.

No. We are an indoor electromagnetic test facility with no environmental impact.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Questions:

3.1.C.2.	3.1.C.5	3.1.C.5.A	3.1.C.6	3.1.D.2.A	3.1.G.2	3.1.G.3
3.1.G.4	3.1.G.5	3.1.G.6	3.1.G.7	3.1.G.8	3.1.H.1	3.1.H.2
3.1.H.3	3.1.H.8	3.1.H.9	All of section 3.2		All of section 3.4	

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Not Applicable. Each of the above questions is not applicable to the HAVE NOTE electromagnetic environmental effects research center. The Rome Laboratory Electromagnetic Environmental Effects Research Center is and indoor, stand-alone center containing two radio frequency anechoic chambers and one mode tuned reverberation chamber, each capable of high power radio, microwave and millimeter wave radiation of test objects. The center is not effected nor dependent upon factors such as encroachment, environmental pollution, air/sea/land space, weather, specialized targets, ramp space, runways, nor weapon explosive test capabilities.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.C.3.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) or any sort that deal with the environment? If so, when do they expire? Please describe.

No. We are an indoor electromagnetic test facility with no environmental impact.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.C.4

SOURCE: World Book Encyclopedia dated 1992 and Rand-McNally World Book Atlas, dated 1992 (population figures based on 1990 census); Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, Rome Lab/ERST, DSN 587-2841; and Mr Thomas E Baustert, GM-14, Rome Lab/ERS, DSN 587-4217

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Engineering Estimate - Answer was estimated based on map population data in the references. This is an estimate, not an exact number. Circles were drawn and major population centers added together to obtain estimated population.

CONCLUSION: Question 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?

Population within	50 Miles	1 Million estimated
	100 Miles	2.6 Million estimated
	150 Miles	7.6 Million estimated
	200 Miles	32 Million estimated

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.D.1.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.D.1 Do you have specialized facilities which are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load buildup facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/No. If yes, please describe

No. The E3RC is an indoor, self sufficient electromagnetic test facility.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.D.2.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.D.2 Are specialized targets required to support this facility? Yes/No. If yes, explain.

No. The E3RC is an indoor, self sufficient, electromagnetic test facility.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

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INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.E.1.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.E.1 Other that the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/No. If yes, explain.

Yes. Although primary mission is Precision Guided Munitions High Power Vulnerability Assessment, the high power, broad range of frequencies available with the E3RC amplifier sources have been used to test B-1B antenna systems, Electromagnetic Environmental Effects of C4I devices and the F-16 rate sensor and flight computer.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.E.1.A

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/No. If yes, identify by T&E functional area and test type.

Yes, Although primary mission is Precision Guided Munitions High Power Vulnerability Assessment, facility could be adapted to Electronic Combat test process due to the versatility of the E3RC high power broadband TWT amplifier sources.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.E.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.E.2 Are airspace, land, and water areas - adjacent to areas under DoD control - available and/or suited for physical expansion to support new missions or increased footprints? Yes/No. If yes, please explain.

Yes. Rural area and open building space on Griffiss AFB allow practically unlimited expansion of mission and facilities.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.E.3

SOURCE: Letter of Approval for Open/Unattended Storage of Classified, 416Wing/CC, Griffiss AFB NY dated 14 Mar 89

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Review of Approval letter.

CONCLUSION: Question 3.1.E.3 Is the facility equipped to support secure operations? Yes/No. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

Yes. Facility can support SECRET as equipped. Special Access Programs and higher levels of classification with alarms and/or guards.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.E.4

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.E.4. Are there any capital improvements underway or programmed in the 95 FYDP that would change your capacity/capability? Yes/No. If yes, explain.

Yes, Capital improvements (replacement) of the aging high voltage power supply and modulators for the TWT and Magnetron power sources. This will improve reliability and increase average and peak power capability.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

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INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.F.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/No. If yes, describe

Yes.* The E3RC is unique in DoD. While other anechoic chambers exist and some do vulnerability work, the size, frequency range of the anechoic absorber and the broadband, high average power frequency coverage of the TWT sources make this facility and capability unique in DoD.

* This answer was reported on Rome Laboratory JCS Lab Data Call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.F.1.A

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.F.1.A Within the US Government? Yes/No. If yes, describe.

Yes.* No other facility/capability exists in the US Government. Vulnerability requirements outside DoD are much less stringent than those imposed on DoD war fighting systems. While other anechoic chambers exist and some do vulnerability work, the size, frequency range of the anechoic absorber and the high, average power and broad frequency coverage of the TWT sources make this facility and capability unique in the US Government.

* This answer was reported on Rome Laboratory JCS Lab Data Call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.F.1.B

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.F.1.B Within the US? Yes/No. If yes, describe

Yes,* this E3RC is unique in the US. While other anechoic chambers exist, and some do vulnerability work, the size, frequency range of the anechoic absorber, and the high, average power and broad frequency coverage of the TWT sources make this facility and capability unique in the US. The high capital cost and limited return on capital investment make it unattractive for industry to establish such a capability.

* This answer was reported on Rome Laboratory JCS Lab Data Call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.F.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/No. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

No, not directly. We do provide vulnerability assessments to AF managed joint (Navy) program offices (AMRAAM, DSU-33, JDAM, JPF).

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.G.1.

SOURCE: Building 3 Floor Plan drawing (TD-614 Griffiss AFB NY, dated 21 Jan 80); Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841; and Mr Thomas E Baustert, GS-14, DSN 587-4217, Rome Lab/ERS.

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Using engineering skills, multiplied length by width of facility dimensions as taken from facility drawing.

CONCLUSION: Question 3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?

The facility occupies 13,000* square feet of land space in a four story high bay building.

As this is an indoor land based facility, no air or sea space is involved.

* This answer was reported on Rome Laboratory JCS Lab Data Call Q.3.4.1.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.H.4

SOURCE: 416thth OSS/OSW Weather Station AWS Climate Brief dated Apr 90; Mr Thomas E Baustert, DSN 587-4217 Rome Lab/ERS; and MSgt Lambino, 416th OSS/OSW Weather Station

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Professional Judgement - Data was extracted and interpreted to answer question. This is an indoor facility, weather has no effect on its operation, other than to load our heating/air conditioning systems.

CONCLUSION: Question 3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees?

Average Temperature	# of DAYS
below 32 degrees F	115
32 degrees to 95 degrees	250
above 95 degrees F	0

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.H.5.

SOURCE: 416th OSS/OSW Weather Station AWS Climate Brief dated Apr 90; Mr Thomas E Baustert, DSN 587-4217 Rome Lab/ERS; and MSgt Lambino, 416th OSS/OSW (Weather Station).

METHOD: Professional Judgement - MSgt Lambino estimated the answer based on data on hand. 416th OSS/OSW Weather Station does not record the data the way it is called out in the question.

CONCLUSION: Question 3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80% Above 80%?

Below 30%	22 days
30-80%	data not available
above 80%	data not available

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.H.6.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather?

None. The E3RC is an indoor electromagnetic test complex not effected by weather.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.1.H.7.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather?

None. E3RC is an indoor electromagnetic test complex not effected by weather.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To introduce the answers to questions in section 3.3.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3 Electronic Combat

Although our primary mission supports Precision Guided Munitions, our facility provided data on the intentional and unintentional "jamming" of weapon guidance and control sections in realistic combat environments. Data is also obtained on the effectiveness of Counter-Countermeasures designed into systems. The following answers expand on this capability.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

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INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.1 What is the number of threats simulated?

Three real time, high power, simultaneous threats can be simulated by fully programmable sources capable of standard and arbitrary waveform generation.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?

Three simultaneous high power threats can be radiated.

Signal density is limited to any 3 octave bands at power levels of 1 kilowatts average and 1 megawatt peak per octave over the frequency range of 14 kilohertz to 18 gigahertz. Spot frequency coverage is available at 35 gigahertz. Radiated power densities of 10,000 volts per meter are possible.

Signals can be radiated or injected.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.3

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/No. If yes, by whom?

No. The HAVE NOTE methodology is one of electromagnetic susceptibility characterization by hardware in the loop measurement. Analysis to DIA validated threat environment data determines vulnerability.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.4

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/No for each.

Yes. Open Loop tests are performed on precision guided weapon seekers and control and guidance sections.

Yes. Reactive tests are performed on precision guided weapon seekers and control and guidance sections

No. Closed loop 6 degree of freedom (DOF) tests are not performed. Control or fin position data can be fed to 6 DOF models maintained by others for fly-out analysis.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.5

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.5 What is the threat representation (fidelity) and density?

Dedicated real time sources provide excellent fidelity for three high power emitters, in the frequency range of 14 KHz to 18 GHz (spot coverage at 35 GHz) at power densities of up to +44dBm/sq cm (10,000 Volts/meter). Modulation capabilities include CW, AM, FM, Phase, Noise and Pulse (CW to 1ns pulse width). Ultrawide band video pulser is also available.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.6

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/No. If yes, describe.

Yes. Direct radiation from land, sea and/or air threats can be simulated over the frequency range of 14KHz to 18GHz, with spot coverage at 35GHz. Multipath, fading and scintillation effects from propagation not currently simulated.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY/ERST
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.7

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.7 What geographic dispersion can be simulated?

Threats can be dispersed over a ± 64 degree horizontal by ± 45 degree vertical spacial area.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.7.A

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.7.A Threat lay down?

Up to three point source threat locations and one target can be laid down.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.7.B

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.7.B Representative distance.

Low power emitter can simulated at all distances, near field to horizon. Most high power emitters can be simulated from 1000 feet range to the horizon.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.8

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.8 Are the threat moveable (i.e. dynamic) within a test scenario? Relocatable to new scenarios?

Yes, threat positions can be varied electronically in range, frequency, doppler, modulation, and waveform within a test scenario, but are physically fixed in location. The device under teat can be physically scanned in azimuth during a scenario.

Threat physical position or layout can be manually changed between scenarios.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.9

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.9 Is the facility interlinked with off-site threats? Yes/No. If yes, how are you linked?

No. Stand alone facilities

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.A.10

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.A.10 Is there a limit on simultaneous users? Yes/No. if no, explain.

Yes, limit of two simultaneous users.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.B.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/No. If so, identify the limits and measures to remove them.

Yes. Maximum weight 4000 pounds and 20 feet in length. Physical modification to size and strength of structure necessary to increase limits

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.B.2

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated?

Three simultaneous, real time, high power emitters.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.B.3

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.B.3 What range of spectra can be tested and evaluated?

Threat emitter spectra limited to radio frequency (14 Khz to 1GHz), microwave (1GHz to 18 GHz) and millimeter wave (35GHz) ranges.

Targets can be provided in electro-optic, Infrared, laser, and radar seeker bands. Variable doppler, delay and range attenuation are possible with radio frequency and microwave targets.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.B.4

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.B.4 What are the available spectra?

Continuous threat emitter radio frequency and microwave frequency coverage from 14 kilohertz to 18 gigahertz. With average power capability to 1 kilowatt and peak capability in magnetron bands to 1 megawatt. 10 kilowatt peak magnetron capability at 35 gigahertz.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.3.B.5

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.3.B.5 Do you have a scene generation capability? Yes/No. If yes, describe.

Yes, one target and three high power, real time, simultaneous, threat emitters can be located in a ± 65 degree horizontal and ± 45 degree vertical scene at realistic power levels from near field to horizon.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Thomas E Baustert

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.4.A.1

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.4.A.1 Do you currently test directed energy weapon systems? Yes/No. If yes explain. describe the power source(s) you have available. What is your maximum downrange distance?

Yes. The E3RC has the capability to simulate microwave and ultra-wideband directed energy threat emitters at "medium" power over a broadband continuous frequency range. Microwave weapons can be simulated at power levels of 1 megawatt peak and 1 kilowatt average. An video pulse ultra-wideband emitter of 12,000 volts peak is available. The E3RC does not develop or test directed energy weapons themselves.

Due to the dispersive nature of RF propagation, the effective distance of RF weapons is a function of the system under evaluation response and RF power radiated and can not be uniquely specified.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

INSTALLATION WORKSHEET
ROME LABORATORY
Electromagnetic Environmental Effects Research Center (E3RC)
USAF PROJECT HAVE NOTE 1006

PURPOSE: To Summarize the answer to Question 3.4.B, 3.4.B.1, 3.4.B.2.

SOURCE: HAVE NOTE E3RC PMD (AF/TE 4004(16) dated 20 Mar 92); Rome Lab Facility Register (RL-TR-93-91 dated April 93); HAVE NOTE Project Briefing (dated 5 Aug 93); and Mr Raymond W Tucker, Jr, Electronics Engineer, GS-13, HAVE NOTE Project Manager (15 years experience), Rome Lab/ERST, DSN 587-2841

MISSION: Project HAVE NOTE provides the Air Force with the facilities and capabilities to evaluate the electromagnetic susceptibility and vulnerability of air/ground launched precision guided weapons and munitions, and communications, command, control and intelligence (C3I) systems, subsystems and equipments. (AF/TE PMD 4004(16) dated 20 Mar 92)

METHOD: Extract data from above documentation to assess the technical capabilities, requirements, and characteristics of the HAVE NOTE E3RC and the Professional Judgement of Mr Tucker with 15 years experience in operation and management of Project HAVE NOTE.

CONCLUSION: Question 3.4.B Rocket/Missile/Bomb Systems (MV II) - Measure of Merit: Extent capability satisfies weapon system test requirements. This includes the testing of all types of rocket, missile, and bomb systems at the system/subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

N/A The questions in this section are not applicable to a guidance and control section electromagnetic vulnerability evaluation facility. As the primary mission of the E3RC is in the evaluation of the Guidance and Control vulnerabilities of Precision Guided Munitions, it is not necessary to and we do not handle "live" full up weapons.

I certify that the above information is accurate and complete to the best of my knowledge and belief.

Preparer: Thomas E Baustert, GM-14, RL/ERS, DSN 587-4217 Date: 08 Aug 94

I certify that the above information is accurate and complete to the best of my knowledge and belief.

MAJCOM Reviewer: _____ Date: _____

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GENERAL INFORMATION

FACILITY/CAPABILITY TITLE: Rome Laboratory Electromagnetic Environmental Effects Research Center (E3RC) Project HAVE NOTE

ORIGIN DATE: 08 Aug 94

SERVICE: Air Force **ORGANIZATION/ACTIVITY:** Rome Laboratory **LOCATION:** Griffiss AFB, NY

T&E FUNCTIONAL AREA: Armaments/Weapons **UIC:** _____

T&E TEST FACILITY CATEGORY: Measurement

PERCENTAGE USE: =100%	T&E	S&T	DE	IE	T&D	OTHER
		17	83			

BREAKOUT BY T&E FUNCTIONAL AREA (%):

	T&E	S&T	DE	IE	T&D	OTHER
AIR VEHICLES						
ARMAMENT/WEAPONS			83			
EC						
OTHER (C4I)		17				

Note: This facility is typically funded by 64256F and other 6.4 dollars which meets the instruction definition of DE. We support the Armament/Weapon and C4I RDT&E test process as indicated.

Total in Breakout Must Equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: Rome Laboratory Electromagnetic Environmental Effects Research (E3RC) Project HAVE NOTE

Facility Description; Including Mission Statement: Project HAVE NOTE, managed by ROME LABORATORY's Electronics Systems Engineering Division (RL/ERS), provides the Air Force with the facilities/capabilities to determine the electromagnetic (EM) susceptibility/vulnerability (S/V) of USAF mission systems to ensure their deployment without mission failure due to system degradation by non-nuclear radiated EM energy environments (both hostile and friendly). Classes of systems to be assessed include precision guided weapons and munitions and command, control, communications and intelligence (C3I) systems, subsystems and equipments. This program provides the Air Force with an improved RDT&E capability to perform EMS/V assessments on selected systems by integrating an environmental threat analysis, high power susceptibility measurements and analysis of special electromagnetic interference effects, utilizing specialized telemetry, instrumentation, and computer simulation.

Interconnectivity/Multi-Use of T&E Facility: Stand alone facility/capability. Antenna coupling data from RL antenna test range used in vulnerability analysis.

Type of Test Supported: Precision guided munitions - high power radio frequency, microwave and millimeter wave susceptibility measurements & vulnerability assessments.

Summary of Technical Capabilities: See detailed Fact Sheet attached. E3RC consists of a large anechioc chamber, small anechoic chamber, large revereration chamber, small reverberation chamber, shielded secure control and instrumentation rooms and high power radio frequency, microwave and millimeter wave sources.

Keywords: Electromagnetic susceptibility/vulnerability (EMS/V), high energy radio frequency (HERF) measurements, Project HAVE NOTE

FACILITY FACT SHEET

ROME LABORATORY/ERST

Electromagnetic Environmental Effects Research Center (E3RC)

USAF PROJECT HAVE NOTE 1006

PURPOSE: Electromagnetic Environmental Effects Vulnerability Assessment of Air Force Mission Systems

DESCRIPTION: The E3RC provides the Air Force with the capability to simulate, measure and improve the performance of Air Force weapon, communication, command, control, computer and intelligence systems in the worldwide non-nuclear electromagnetic environments in which these systems must operate. These electromagnetic environments include both hostile and friendly sources such as communications transmitters, radars, jammers, high power microwave (HPM) directed energy sources, ultra wideband (UWB) sources and other electromagnetic sources. The measurement of the electromagnetic susceptibility characteristics allows the Air Force to perform vulnerability assessments of operational Air Force systems. Once the susceptibility characterization has been performed, the effects of new or evolving threats can be quickly evaluated by analysis.

CAPABILITIES: The E3RC consists of simulation and measurements facilities. The simulation facilities include computer resources and programs to predict electromagnetic coupling. Intrasystem coupling and isolation can be predicted and measured. The measurement facilities include two anechoic chambers, two reverberation chambers, supporting laboratory, and associated RF source, instrumentation and support equipment. The two anechoic chambers (48ft x 40ft x 32ft and 32ft x 12ft x 12ft) provide a free space electromagnetic environment for detailed evaluation. The two reverberation chambers (32ft x 17ft x 12ft and 6ft x 5ft x 4.5ft) provides a "quick look," frequency culling evaluation capability. In addition, the larger reverberation chamber can also be used as a Transverse Electromagnetic (TEM) cell for low frequency measurements.

UNIQUE FEATURES: Systems as large as an Air Launched Cruise Missile (16 feet) can be accommodated in the anechoic and reverberation chambers. Wide, continuous frequency coverage from 50 Mhz (14 kHz in TEM mode) to 18 Ghz is available. High average and peak power densities of +24 dBm/cm2 (1000 Volts/meter are obtainable in the anechoic facilities. Peak power densities to +44 dBm/cm2 (10,000 Volts/meter) are available in the reverberation facility. Peak power densities of +50 dBm/cm2 (20,000 Volts/meter) are available at certain spot frequencies of interest. Standard and special modulations can be generated to simulate RF threats.

INSTRUMENTATION: Medium power RF, microwave and ultra wideband signal sources, telemetry and control systems, and an extensive inventory of general purpose measurement equipment support the facility. All equipment is automated and data can be gathered in digital and/or analog formats for analysis.

AVAILABILITY: Primary users are AFMC SPOs and Rome Laboratory in-house research and development. Facility is maintained and improved by Air Force Project 1006, HAVE NOTE. Vulnerability assessments are customer funded.

LOCATION: Bldg 3, HiBay Lab, 525 Brooks Rd, Griffiss AFB NY 13441-4505

POINT OF CONTACT: Rome Laboratory/ERST, Ray Tucker, PHONE: 315-330-2841 or DSN 587-2841, FAX 315-330-7083 or DSN 587-7083.

ADDITIONAL INFORMATION

FACILITY/CAPABILITY TITLE: Rome Laboratory Electromagnetic Environmental Effects Research Center (E3RC) Project HAVE NOTE

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
OFFICER	0	0	0	0	0	0	0
ENLISTED	0	0	0	0	0	0	0
CIVILIAN	3	3	3	3	3	3	3
CONTRACTOR	10	10	10	10	10	10	10
TOTAL	13	13	13	13	13	13	13

Total Square Footage: 17,000

Test Area Square Footage: 13,000*

Office Space Square Footage: 4,000

Tonnage of Equipment: 780 tons

Volume of Equipment: 52,000 cubic feet

Annual Maintenance Cost: $120,000

Estimated Moving Cost: Facility not moveable. Facility would be destroyed if moved. Facility replacement cost $9.16M. Equipment above moveable cost not available.

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$300,000	$500,000	$400,000	$350,000	$400,000	$425,000	$450,000

* This answer was reported on the Rome Laboratory JCS Working Group data call Q.3.4.1.

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Rome Laboratory Electromagnetic Environmental Effects Research Center (E3RC) Project HAVE NOTE

AGE: 15 years

REPLACEMENT VALUE: FY 95 = $21.72M* not including real property
Facility $9.16M + Equip $12.56M

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: FY 92/93

NATURE OF LAST UPGRADE: Computer facility modernization & data acquisition software upgrade - on line FY 94

MAJOR UPGRADES PROGRAMMED

1. **UPGRADE TITLE:** TWT/ magnetron power supply replacement
   TOTAL PROGRAMMED AMOUNT: $900K FY 94/95
   SUMMARY DESCRIPTION: Replace and upgrade power capability of aging high voltage traveling wave tube and magnetron power supply (1980 equipment) sources

2. **UPGRADE TITLE:** Phased replacement/upgrade of high power radio frequency sources
   TOTAL PROGRAMMED AMOUNT: $1.625M FY 96-99
   SUMMARY DESCRIPTION: Replacement/upgrade of high power sources which have a 5-10 year life expectancy

*This answer was reported on the Rome Laboratory JCS Lab Data Call Q3.4.1.

HISTORICAL WORKLOAD

Facility/Capability Title: Rome Laboratory Electromagnetic Environmental Effects Research Center (E3RC) Project HAVE NOTE

T&E FUNCTIONAL AREA	HOURS	FISCAL YEAR 86	87	88	89	90	91	92	93
	DIRECT LABOR								
AIR VEHICLES	TEST HOURS								
	MISSIONS								
	DIRECT LABOR								
EC	TEST HOURS								
	MISSIONS								
	DIRECT LABOR	17000	22000	256000	22100	16800	21200	22100	13100
ARMAMENT/WEAPONS	TEST HOURS	3100	4000	4700	4020	3050	3850	4030	2400
	MISSIONS								
	DIRECT LABOR								
OTHER T&E	TEST HOURS								
	MISSIONS								
	DIRECT LABOR	3500	4400	7000	4400	3500	3500	4400	2300
OTHER (S & T)	TEST HOURS	1170	1470	2330	1450	1160	1175	1500	770
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Electromagnetic Environmental Effects Research Center (E3RC Project HAVE NOTE

ANNUAL HOURS OF DOWNTIME	1 2175
AVERAGE DOWNTIME PER DAY (LINE 1 S 365)	2 5.96
AVERAGE HOURS AVAILABLE PER DAY (24-LINE 2)	3 18.04

TEST TYPES	MAXIMUM TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	UNCONSTRAINED WORKLOAD PER FACILITY HOUR	CAPACITY PER DAY (LINE 3 X TOTAL 7)
4	5	6	7	8 198
EMS/U Measurements				
				ANNUAL
UNCONSTRAINED				CAPACITY
'TYPICAL"	2	5.5	11	9 72,435
		TOTAL 7	18.5	

Document Separator

Wright Laboratory's Aero Propulsion and Power Facilities

The Facilities listed herein have been reported as S&T assets under the "Lab" Joint Cross-Service Data Call

Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

10 August, 1994

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

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T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable

T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components:
data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.
Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to

future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

Use the forms and accompanying instructions in appendix A to provide answers for this section.

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93?

> **Ans. None or insignificant. Our facilities are R&D facilities, however some T&E work in the Propeller Research Facility is reported in the attached forms in Appendix A.**

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/

weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

FY92

Program Element	AV	EC	A/W	OT	Other

Ans. No P.E. numbers are available. The small amount of T&E work conducted by the Propeller Research Facility was done under Memorandum of Agreements.

FY93

Program Element	AV	EC	A/W	OT	Other

Ans. No P.E. numbers are available. The small amount of T&E work conducted by the Propeller Research Facility was done under Memorandum of Agreements.

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Ans. A small amount of T&E work was conducted by the Propeller Research Facility. The rest of our facilities are R&D facilities and do not meet the T&E use criteria to be reported.

Functional Area	FY92 Workyears	FY93 Workyears
Air Vehicle	3.38	5.63
Electronic Combat		
Armament/Weapons		
Other Test	1.13	0
Other		

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

Ans. A small amount of T&E work was conducted in the Propeller Research Facility. Unconstrained capacity is reported in Appendix A. The rest of our facilities are R&D facilities and do not meet the T&E use criteria to be reported.

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc?

Ans. Capacity for the Helicopter Rotor Facility are limited to one test at a time. The Propeller Research Facility can accomodate multiple tests at a time.

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? Yes/no.

Ans. No

-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?

Ans. The Aero Propulsion and Power facilities herein reported are R&D facilities, with the exception of the Propeller Test Facility and the Helicopter Rotor Facility. For these two facilities the answer is no.

-2.3.B.1 On the test mission of any other activity?

Ans. No

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States?

Ans. No

SECTION 3: MEASURES OF MERIT

This section relates the measures of merit and the required data to the four criteria that have been established for Military Value. The four military value (MV) criteria are:

CRITERION 1: The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.

CRITERION 2: The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.

CRITERION 3: The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.

CRITERION 4: The cost and manpower implications.

3.1 OVER-ARCHING MEASURES OF MERIT

The over-arching measures of merit are listed with accompanying questions (or data requirements) intended to elicit standard information upon which the cross-service analyses can be based, and on which the Joint Cross-Service Groups can base their reviews of the Military Department analyses. Additional specific measures of merit are shown under individual functional areas. The numbers in parentheses () before each measure of merit indicate the BRAC selection criteria for military value.

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.

Ans. None

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/no. If yes, explain.

Ans. No

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*

Ans. Our facilities are R&D facilities and do not meet the T&E use criteria to be reported.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

- 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility?
Yes/no. If yes, explain.

Ans. No

- 3.1.C.2 How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload.

Ans. NOT APPLICABLE

- 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? If so, when do they expire? Please describe.

Ans. No

- 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?

Ans. 50 Mile Radius: 2,401,026
100 Mile Radius: 9,170,940
150 Mile Radius: 15,243,900
200 Mile Radius: 23,791,690

- 3.1.C.5 Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space.

Ans. NOT APPLICABLE

- 3.1.C.5.A How many test missions per year are canceled due to commercial or public use?

Ans. None

- 3.1.C.6 What is the number of test missions that have been canceled due to encroachment in each of the last two years?

Ans. NOT APPLICABLE

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe.

Ans. No

-3.1.D.2 Are specialized targets required to support this facility? Yes/no. If yes, explain.

Ans. No

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom?

Ans. NOT APPLICABLE

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain.

Ans. No

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/no. If yes, identify by T&E functional area and test type.

Ans. NOT APPLICABLE

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain.

Ans. NOT APPLICABLE

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no.. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

Ans. No, with the exception of the Compressor Research Facility. It can handle work at the Confidential level.

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain.

Ans. No

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/no. If yes, describe.

Ans. Yes, by virtue of the fact that these are R&D facilities, most are unique.

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe.

Ans. See answer to question 3.1.F.1.B

-3.1.F.1.B Within the US? Yes/no. If yes, describe.

Ans. Yes. The following R&D facilities are unique within the US.

Propeller Research Facility - Only known capability to test high horsepower propellers with precise speed control in the US.

Helicopter Rotor Facility - This facility is unique to the US because of its size, measurement capability and drive system. The electrical drive system affords precise speed control over the entire speed range.

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

Ans. Yes

ARMY		NAVY		
FY92	FY93	FY92	FY93	
0	0.01%	0.0004%	0.15%	(% of total APPD $)

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?

Ans. NOT APPLICABLE

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use?

Ans. NOT APPLICABLE

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are associated with the restricted areas?

Ans. NOT APPLICABLE

-3.1.G.4 Do you have special use airspace other than supersonic airspace? Yes/no. If yes, for what types of test (e.g. terrain following radar)? Dimensions? Will it support simultaneous users? Yes/no.

Ans. NOT APPLICABLE

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each.

Ans. NOT APPLICABLE

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission.

Ans. NOT APPLICABLE

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles?

Ans. NOT APPLICABLE

-3.1.G.8 What public airspace have you used for overflight of weapons systems in the past? What was the nature of those tests? Do you anticipate being able to use that same public airspace for similar tests in the future? Yes/no.

Ans. NOT APPLICABLE

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/riverine, desert, and sea. State the area of each in square miles.

Ans. NOT APPLICABLE

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test?

Ans. NOT APPLICABLE

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years.

Ans. NOT APPLICABLE

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees?

Below 32 F = 65
Between 32 F and 95 F = 300
Above 95 F = 0

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%?

Below 30% = 0
Between 30% and 80% = 325
Above 80% = 40

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather?

Ans. NOT APPLICABLE

-3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather?

Ans. NOT APPLICABLE

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles?

Less than 1 mile = 0
Between 1 and 3 miles = 8
Greater than 3 miles = 357

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years.

Ans. NOT APPLICABLE

-3.1.H.10 What percentage of the time are your test operations restricted due to weather?

Ans. NOT APPLICABLE

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

-3.2.A.1 Do supersonic corridors or areas exist? Yes/no.

Ans. NOT APPLICABLE

-3.2.A.2 Where are they located relative to your airfield?

Ans. NOT APPLICABLE

-3.2.A.3 At what altitude (upper and lower altitude)?

Ans. NOT APPLICABLE

-3.2.A.4 Over land or water? What size and shape (length and width)?

Ans. NOT APPLICABLE

-3.2.A.5 Are there restrictions you must observe to use this space? Yes/no. If yes, explain.

Ans. NOT APPLICABLE

-3.2.A.6 What is the maximum number of simultaneous users?

Ans. NOT APPLICABLE

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit: *Extent of air vehicle infrastructure to support T&E operations.*

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space.

Ans. NOT APPLICABLE

-3.2.B.2 How close and how many emergency runways or airfields are in your area of operation?

Ans. NOT APPLICABLE

-3.2.B.3 Where is your airfield situated relative to working areas (airspace) for supporting test operations?

Ans. NOT APPLICABLE

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations?

Ans. NOT APPLICABLE

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s).

Ans. NOT APPLICABLE

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles?

Ans. NOT APPLICABLE

-3.2.C Test Operations (MV II) - Measure of Merit: *Extent of T&E operations that the airspace can accommodate.*

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics)

Ans. NOT APPLICABLE

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions?

Ans. NOT APPLICABLE

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)?

Ans. NOT APPLICABLE

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions? If yes, explain.

Ans. NOT APPLICABLE

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace?

Ans. NOT APPLICABLE

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry?

Ans. NOT APPLICABLE

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace?

Ans. NOT APPLICABLE

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation.

Ans. NOT APPLICABLE

3.3 ELECTRONIC COMBAT

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements.*

-3.3.A.1 What is the number of threats simulated?

Ans. NOT APPLICABLE

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?

Ans. NOT APPLICABLE

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom?

Ans. NOT APPLICABLE

-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each.

Ans. NOT APPLICABLE

-3.3.A.5 What is the threat representation (fidelity) and density?

Ans. NOT APPLICABLE

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe.

Ans. NOT APPLICABLE

-3.3.A.7 What geographic dispersion can be simulated?

Ans. NOT APPLICABLE

-3.3.A.7.A Threat lay down?
-3.3.A.7.B Representative distance?

-3.3.A.8 Are the threats moveable (i.e.dynamic) within a test scenario? relocatable to new scenarios? yes/no

Ans. NOT APPLICABLE

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how are you linked?

Ans. NOT APPLICABLE

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain.

Ans. NOT APPLICABLE

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which test support satisfies weapon system test requirements.*

-3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/no. If so, identify the limits and measures to remove them.

Ans. NOT APPLICABLE

-3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated?

Ans. NOT APPLICABLE

-3.3.B.3 What range of spectra can be tested and evaluated?

Ans. NOT APPLICABLE

-3.3.B.4 What are the available spectra?

Ans. NOT APPLICABLE

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe.

Ans. NOT APPLICABLE

3.4 ARMAMENTS / WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon,

it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements.*

This includes testing of all types of directed energy weapons.

-3.4.A.1 Do you currently test directed energy weapon systems? Yes/no.

Ans. No

If yes, explain. Describe the power source(s) you have available. What is your maximum downrange distance?

3.4.B Rocket / Missile / Bomb Systems (MV II) - Measure of Merit: *Extent capability satisfies weapon system test requirements.*

This includes the testing of all types of rocket, missile, and bomb systems at the system/subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

-3.4.B.1 Ground Space

-3.4.B.1.A What is the area in square miles of the land and water space which you can use to conduct tests of live rocket, missile, or bomb systems?

Ans. NOT APPLICABLE

-3.4.B.1.B How many separate and distinct land and water test areas are available to conduct tests of live weapons? List them and the size of each in acres.

Ans. NOT APPLICABLE

-3.4.B.1.C What are the maximum ranges (nautical miles) you can test, by type weapon?

Ans. NOT APPLICABLE

3.4.B.2 Test Operations

-3.4.B.2.A For each of your land and water ranges, how many test missions were scheduled in FY92 and FY93 that were required to use safety footprints comparable to those required for the following types of weapons:

--Unguided 2000 pound-class ballistic weapon
---live?
---inert?
--Guided weapon (e.g., GBU-24 class)
---live?
---inert?
--Stand-off weapon (e.g., AGM-130 class)
---live?
---inert?
--Short-range missile (e.g., AIM-9)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL
--Long-range missile (e.g., AIM-120)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL

Ans. NOT APPLICABLE

-3.4.B.2.B Were flight termination systems required? Yes/no.

Ans. NOT APPLICABLE

-3.4.B.2.C If no missions were scheduled in a category, give the reason(s).

Ans. NOT APPLICABLE

-3.4.B.2.D Were any scheduled missions canceled before the mission, or terminated/aborted during the mission because of encroachments into the safety footprint? Yes/no. If yes, how many per year.

Ans. NOT APPLICABLE

APPENDIX A - DATA FORMS AND INSTRUCTIONS

1. Form, General Information

Facility/Capability: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

Origin date: Enter today's date in the format MM/DD/YY.

Military Department: Allowable entries include "N" for Navy, "A" for Army, and "AF" for Air Force. If the facility/capability is managed by an "Other Government Agency" (e.g. ARPA, DNA, ACC) enter the appropriate Agency name.

OrganizatioNot Applicablectivity: Enter the name (with acronym) for the field activity. Example: White Sands Missile Range (WSMR).

WRIGHT LABORATORY (WL)

Location: Enter the location where the facility/capability is physically located (installation, city or other common name).

Wright-Patterson Air Force Base, Ohio

Unit Identification Code (UIC): Enter the UIC.

T&E Functional Area: Enter the single area this facility/capability primarily supports: Air Vehicles, Armament/Weapons, Electronic Combat, or Other.

T&E Test Facility Category: Enter the facility category based on the following definitions:

(1) Digital Models and Computer Simulations (DMS)- Those models and simulations which either provide a simulated test environment or representations of systems, components, and platforms. DMSs are used throughout the development and test process, as analytical tools,

as well as tools to drive or control electronic and other environmental stimuli provided, the test articles on Open Air Ranges (OARs), Installed Systems Test Facilities (ISTFs), Hardware in the Loop Test Facilities (HITLs), Integration Laboratories (ILs), and Measurement Facilities (MFs).

(2) Measurement Facilities (MF)- Those facilities used to provide a specialized test environment and/or data collection capability. MFs may be ground based laboratories or open air facilities (often located at or part of OARs).

(3) Integration Laboratories (IL)- Those facilities designed to support the integration and test of various systems and components that will be installed in a host platform. ILs are generally platform specific or unique. However, the simulated stimuli and data collection capabilities required by ILs are often common with those required by HITLS and ISTFs.

(4) Hardware-In-The-Loop (HITL)- Those facilities which provide capabilities to test systems or their components at various stages of development (e.g., brassboard, breadboard, prototype, preproduction, production). HITLs provide stimuli and data collection capabilities to permit test and evaluation of a system/component independent of the host platform.

(5) Installed Systems Test Facilities (ISTF)- Ground based test facilities (usually chambers) that allow test of systems and weapons as installed in the combat platform. ISTFs provide simulated test environments and stimuli and data collection capabilities for the test article(s).

(6) Open Air Ranges (OAR)- Those facilities which consist of controlled or restricted areas to support the test of platforms/systems in a real world, dynamic environment. They are instrumented with data collection, time-space-position information, positive control of test participants, and real or simulated targets and threats as appropriate.

Percentage Use: Enter percentage of time, based on hours, the facility is used to support each of the following (total must sum to 100%):

(1) Test and Evaluation (T&E)- Any facility that is accountable to Military Department and/or OSD T&E management oversight. Operation and sustainment of these facilities are typically funded from 6.5 or procurement program elements. Facilities in this category were developed to support developmental and/or operational test and evaluation and focus on the

evaluation of system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with system specifications and quality standards.

(2) Science & Technology (S&T)- Any facility that is accountable to Military Department and/or OSD S&T management oversight. Operation and sustainment of these facilities are typically funded from 6.1, 6.2, and 6.3a program elements. Facilities in this category were developed to support experimental studies leading to enhanced understanding of new phenomena for new military applications as well as efforts directed toward the solution of problems in the physical, behavioral, and social sciences.

(3) Developmental Engineering (DE)- Any facility that is accountable to Military Department and/or OSD Research, Development and Engineering or acquisition management oversight. Operation and sustainment of these facilities are typically funded from 6.3b through 6.4 or procurement program elements. Facilities in this category were developed to support proof-of-principle and engineering development of systems.

(4) In-Service Engineering (IE)- Any facility that is accountable to Military Department and/or OSD logistics management oversight. Operation and sustainment of these facilities are typically funded from 6.7 or Operations and Maintenance (O&M) program elements. Facilities in this category were developed to support the maintenance facilities. These facilities tend to be system peculiar capabilities to conduct checkouts of the system/subsystems after they have undergone a modification, upgrade or improvement.

(5) Training and Doctrine (T&D)- Any facility that is accountable to Military Department and/or OSD training and doctrine management oversight. Operation and sustainment of these facilities are typically funded from O&M program elements. Facilities in this category were developed to support the training and proficiency of operational forces and/or the development of new tactics, doctrine or force structure concepts.

(6) Other - Any work outside the above.

Breakout by T&E Functional Area: For each of the above categories (T&E, S&T, DE, IE, T&D, Other) enter percentage of time facility is used to support Air Vehicles, Armament/Weapons, Electronic Combat, or Other. Total of breakout areas must sum to top line

percentage.

2. Form, Technical Information

Facility Description: Enter a brief description of the facility, including the mission statement.

Interconnectivity/Multi-Use of Facility: Describe any linking/interconnectivity with other T&E facilities. Include physical and/or data linkages (bandwidth, data rate, etc.). Describe any unique characteristics or multiple use of the resource (e.g., operating by rotating crew, availability of resource dependent on ..., equipment will be obsolete by ..., etc.)

Type Tests Supported: Enter specific types of tests accomplished by the Facility (e.g., electromagnetic compatibility, radar cross section, missile miss distance, air-to-air radar simulation, etc).

Summary of Technical Capabilities: Describe technical capabilities at your facility to include:

InstrumentatioNot Applicablessets: Enter instrumentation and other assets (e.g., jammers, target generators, recording equipment, computer support equipment) associated with the resource.

Provide fact sheets, not to exceed two pages.

Keywords: Enter any keywords (spelled-out with acronyms) associated with functions and capabilities of the facility (e.g., electromagnetic interference/electromagnetic compatibility (EMI/EMC), anechoic chamber, radar cross section (RCS)).

3. Form, Additional Information

Additional Information Form. Enter facility name. Provide personnel numbers for FY93, FY94, and each year in the FY95 FYDP broken out according to officers, enlisted, civilians and contractors. Enter total area square footage of indoor space, test area square footage of indoor space used for T&E purposes, and list office space square footage separately. Tonnage of equipment is the weight of all equipment associated with this facility. Volume of equipment is the volume of all equipment associated with this facility. Annual maintenance cost is self

explanatory. Moving costs are estimates for packing equipment at the losing site and reassembly, calibration, etc at the receiving site, not including transportation costs. Capital equipment investments are the current improvement and modernization funds as well as any programs funds earmarked for equipment purchase.

4. Form, Facility Condition

Facility/Capability: Enter the descriptive title for the facility/capability.

Age: Indicate the age of the facility/capability as of the date on the General Information Form.

Replacement Value: Enter the replacement value for the facility/capability. Indicate whether this includes the replacement cost for the equipment.

Maintenance and Repair Backlog: Enter the total dollar amount of the backlog for maintenance and repair items.

Date of Last Upgrade: Date of the last major upgrade to the facility.

Nature of Last Upgrade: Describe the purpose and capability increase from the last major upgrade. Indicate the date this upgrade became available for use.

Major Upgrades Programmed: Enter information on each of the major upgrades that are programmed. Indicate the total programmed amount and provide a summary description of the upgrade.

5. Form, Historical Workload

Use this form to report the workload performed at this facility each year from FY86-93.

Facility/Capability Title: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

T&E Functional Area: For each of these functional areas (Air Vehicles, Armament/Weapons,

Electronic Combat, Other Test, and Other), enter direct labor hours, test hours, and/or missions for FY86 through FY93. For open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

6. Form, Determination of Unconstrained Capacity

Annual Hours of Downtime, 1: If the facility were required to operate continuously for 24 hours a day, seven days a week, 52 weeks a year, determine the number of hours per day the facility can reasonably operate if it is not constrained by personnel strength? Consider your facilities, equipment, and instrumentation fixed at current levels.

1. Add up the total hours of downtime per year for maintenance, weather, darkness (daylight), holidays, etc. Enter in line 1.

Average Downtime Per Day, 2: Divide line 1 by 365 to get the average downtime per day. Fill in at line 2.

Average Hours Available Per Day, 3: Subtract line 2 from 24 hours to get the average number of hours per day the facility is available for test. Fill in at line 3.

Analyze your historic workload mix to determine the average number and type of tests that have been run simultaneously at your facility. Determine the maximum number of tests that can be run simultaneously if there is no limit to personnel authorizations. Enter the following data from your analysis

Test Types, 4: Enter in column 4 the name of the type of test.

Tests at One Time, 5: List the number of each type of test that can be conducted simultaneously in column 5.

Workload Per Test
Per Facility Hour, 6: List the workload (reported in units as follows: For open air range flight

testing, report workload in flight hours and numbers of missions. For all other test facility categories, including open air range other than flight testing, report workload in direct labor hours) represented by each hour the test is run. Do this at line 6.

From the historic workload analysis, determine the average workload per facility hour represented by the average or "typical" test. In the row titled "TYPICAL", in column 5, enter the number of these "typical" tests that can be run in addition to those already listed above. Enter the workload per "typical" test per facility hour in column 6. To estimate test hours from direct labor hours for the Historic Workload Form, divide the facility workload by this number (the number of direct labor hours per "typical" test per facility hour) and enter in the test hour block on the Historic Workload Form.

Workload Per Facility Hour, 7: Multiply column 5 by column 6. Enter in column 7. Total column 7.

Unconstrained Capacity Per Day, 8: Multiply the total from column 7 by line 3 to get the unconstrained capacity per average day. Enter in line 8.

Annual Unconstrained Capacity, 9: Multiply line 8 by 365 to get the unconstrained capacity per year for the facility. Enter on line 9.

GENERAL INFORMATION

Facility/Capability Title: Propeller Research Facility Origin Date: 20 Jul 94

Service: Air Force Organization/Activity: Wright Laboratory Location: Wright-Patterson AFB Complete form for FY93

T&E Functional Area: Air Vehicles UIC = Unknown

T&E Test Facility Category ISTF

	T&E	S&T	D&E	IE	T&D	OTHER
=100%						
PERCENTAGE USE:	100					

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	100
Armanent/Weapons	
EC	

TECHNICAL INFORMATION

Facility/Capability Title: Propeller Research Facility

Facility Description; Including mission statement: Three electrically driven whirl test stands are used to determine propeller (or other rotating device) performance at various rotational speeds. These test stands are capable of performance and endurance testing of propellers to 10,000 horsepower and 10,800 rpm. Horsepower absorbed, thrust generated, and resulting blade stresses and deflections may be determined for various blade pitch angles and speeds.
Interconnectivity/Mulit-Use of T&E Facility: N/A
Type of Test Supported: Performance, endurance and validation research of propellers and other test articles.
Summary of Technical Capabilities: Whirl Rig #1: 10,000 hp, 7,200 rpm, 60,000 lb thrust, 44 ft. max. diameter Whirl Rig #2: 3,500 hp, 9,000 rpm, 40,000 lb thrust, 44 ft. max. diameter Whirl Rig #3: 2,500 hp, 20,000 lb thrust, 44 ft. max. diameter
Keywords: Propeller

ADDITIONAL INFORMATION

FACILITY/CAPABILITY TITLE: Propeller Research Facility

PERSONNEL	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer							
Enlisted							
Civilian							
Contractor	5	4	3	3	3	3	3
Total	5	4	3	3	3	3	3

Total Square Footage: 38,559
Test Area Square Footage: 38,559
Tonnage of Equipment: Unknown
Annual Maintenance Cost: $16K

Office Space Square Footage: 0
Volume of Equipment: Unknown
Estimated Moving Costs: Unknown

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
0	0	0	0	0	0	0

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Propeller Research Facility
AGE: Building 55 years REPLACEMENT VALUE: $65,000,000
Capability 55 years
MAINTENANCE AND REPAIR BACKLOG: $756K
DATE OF LAST UPGRADE: 1990-1993
NATURE OF LAST UPGRADE: Repair bearings, re-alignment, and general repairs to six motor generator sets.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Maintenance/Repair Propeller Research Cell
   TOTAL PROGRAMMED AMOUNT: $756K
   SUMMARY DESCRIPTION: Replace bird screens, repair acoustic walls, paint, replace doors.
2. UPGRADE TITLE:
   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Propeller Research Facility

T&E FUNCTIONAL AREA		FISCAL YEAR 86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR	12 K			5K	6K	8K	6K	10K
	TEST HOURS	2K			1.0K	1.5K	2.0K	1.5K	2.0K
	MISSIONS	1			1	3	3	2	2
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR		7.5K	7.5K	2.5K	2.0K		2.0K	
	TEST HOURS		1.5K	1.5K	0.5K	0.5K		0.5K	
	MISSIONS		3	2	1	1		1	
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Propeller Research Facility

ANNUAL HOURS OF DOWNTIME	1	4380
AVERAGE DOWNTIME PER DAY (LINE 1÷ 365)	2	12
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3	12

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ)
4	5	6	7	8
Whirl tests	3 *	4	12	144
–	–			
TYPICAL				ANNUAL UNCONSTRAINED CAPACITY *52,560
			TOTAL Σ	12

* This facility is comprised of three different whirl test rigs. Depending on the power requirements, up to three tests could be conducted simultaneously.

GENERAL INFORMATION

Facility/Capability Title: Helicopter Rotor

Origin Date: 20 Jul 94

Service: Air Force Organization/Activity: Wright Laboratory Location: Wright-Patterson AFB Complete form for FY93

T&E Functional Area: Air Vehicles

UIC = Unknown

T&E Test Facility Category ISTF

	T&E	S&T	D&E	IE	T&D	OTHER
=100%						
PERCENTAGE USE:	100					

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	100
Armanent/Weapons	
EC	

TECHNICAL INFORMATION

Facility/Capability Title: Helicopter Rotor Facility

Facility Description; Including mission statement: This electrically driven whirl test stand is used to determine rotor performance at various rotational speeds. This facility is capable of performance and endurance testing of up to 90 ft diameter rotors to 6,000 horsepower and 625 rpm. Horsepower and lift can be determined for various speeds. (This facility has been mothballed.)
Interconnectivity/Mulit-Use of T&E Facility: N/A
Type of Test Supported: Performance, endurance and validation research of helicopter rotors.
Summary of Technical Capabilities: Electrically driven test stand, 4,000 hp, 50,000 lb max. lift, 625 rpm, 94 ft. max. rotor diameter
Keywords: rotors, helicopter

ADDITIONAL INFORMATION

FACILITY/CAPABILITY TITLE: Helicopter Rotor Facility

PERSONNEL	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	0						
Enlisted	0						
Civilian	0						
Contractor	0						
Total	0	0	0	0	0	0	0

Total Square Footage: 404
Office Space Square Footage: 0
Test Area Square Footage: 404
Volume of Equipment: Unknown
Tonnage of Equipment: Unknown
Estimated Moving Costs: Unknown
Annual Maintenance Cost: None - Facility in a standby condition

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
0	0	0	0	0	0	0

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Helicopter Rotor Facility
AGE: Building 42 years
REPLACEMENT VALUE: $10M
?? Capability 42 years
MAINTENANCE AND REPAIR BACKLOG: None
DATE OF LAST UPGRADE: 1993
NATURE OF LAST UPGRADE: Reinstalled blade containment material, repainted and replaced deteriorated structural components.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: None
TOTAL PROGRAMMED AMOUNT:
SUMMARY DESCRIPTION:
2. UPGRADE TITLE:
TOTAL PROGRAMMED AMOUNT:
SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Helicopter Rotor Facility

T&E FUNCTIONAL AREA		FISCAL YEAR *							
		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR	0	0	0	0	0	0	0	0
	TEST HOURS	0	0	0	0	0	0	0	0
	MISSIONS	0	0	0	0	0	0	0	0
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

* This facility is in standby status. No tests have been conducted since 1984.

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Helicopter Rotor Facility

ANNUAL HOURS OF DOWNTIME 1
AVERAGE DOWNTIME PER DAY (LINE 1÷ 365) 2
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8
_____	_____	_____	_____	
				ANNUAL UNCONSTRAINED CAPACITY 9 _____
TYPICAL	_____	_____	_____	
			TOTAL Σ	

* This facility is in standby status. No tests have been conducted since 1984. The facility is operational up to 12 hours per day, 299 days per year.

Document Separator

Wright Laboratory's Materials Directorate Facilities

The Facilities listed herein have been reported as S&T assets under the "Lab" Joint Cross Service Data Call

Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

11 August 1994

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

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T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components: data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and

technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against

sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

Use the forms and accompanying instructions in appendix A to provide answers for this section.

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package.

The Wright Laboratory's Materials Directorate is a Research and Development organization and does not have a mission to perform Test and Evaluation functions. The facilities and capabilities within the Directorate are utilized and funded by Science and Technology Funding for the Research and Development of all materials and processes for the Air Force. These capabilities are used to provide materials property data and

performance under different laboratory and simulated conditions. If Test and Evaluation functions are required within ML, they may be able to be accommodated; however a thorough assessment must be performed to see what T&E activities can be accomodated without significant funding for certifications, facilities modifications, etc..

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

FY92

Prog Elem	AV	EC	A/W	Other
63215C				X
63231F	X			
63269F	X			X
643956	X			

FY93

Prog Elem	AV	EC	A/W	Other
63215C				X
63605F				X
63269F	X			X
64708F		X		X

Future

Prog Elem	AV	EC	A/W	Other
63215C				X
63605F				X

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Less than 1% of our total budget came from non-ML 6.3, 6.4, and higher funding for laboratory testing to our facilities identified in Appendix A. The workyears below are based on FY93 funding and represents the amount of the total workyears performed in the facilities used by the PEs identified in question 2.1.B.1.

Functional Area	FY92(WY)	FY93 (WY)
Air Vehicle	1.9	1.9
Electronic Combat	.2	.2
Armament/Weapons		
Other	1.3	1.3

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

Not applicable, the Materials Directorate does not perform Test and Evaluation of components/subcomponents or systems/subsystems.

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc?

The Laser Hardened Materials Evaluation Lab is limited to 150 kW continuous wave and 15 kW repetitively pulsed and 100 seconds per specimen.

The Optical Measurement Laboratory is limited to 1 square foot specimen size and to wavelength analysis ot .325, .6328. 1.06, 3.39 and 10.6 microns. Only 1 specimen per test.

The facilities and laboratories described are NOT limited by safety or health considerations, commercial utility availability, etc.

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? Yes/no.

No. WL/ML does not have a T&E Mission and therefore does not have a wartime contingency plan to perform T&E.

-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?
No.

-2.3.B.1 On the test mission of any other activity?
No.

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States?
No.

SECTION 3: MEASURES OF MERIT

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility?
None. WL/ML is not linked to any other facility for purposes of real time data exchange.

List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.
Not applicable.

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/no. If yes, explain.
No. WL/ML is not linked to any other facility for purposes of real time data exchange.

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*
Fill out the Facility Condition Form in Appendix A in accordance with the instructions.
Not applicable. The Wright Laboratory's Materials Directorate does not have a mission to perform test and evaluation functions for components, subcomponents, systems or subsystems. Research and development facilities and laboratories, located within WL/ML and utilized for R&D of materials and processes are itemized in Appendix A.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

- 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility?
Yes/no. If yes, explain.
No.

- 3.1.C.2 How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload.
Not applicable, there are no constraints to increaseed laboratory workload other than funding and personnel constraints.

- 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? If so, when do they expire? Please describe.
None.

- 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?
Not applicable.

- 3.1.C.5 Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space.
Not Applicable.

- 3.1.C.5.A How many test missions per year are canceled due to commercial or public use?
Not Applicable.

- 3.1.C.6 What is the number of test missions that have been canceled due to encroachment in each of the last two years?
Not Applicable.

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe.
None.

-3.1.D.2 Are specialized targets required to support this facility? Yes/no. If yes, explain.
No, we do not use targets in our research.

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom?
Not Applicable.

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain.
No. The Wright Laboratory's Materials Directorate does not have a mission to perform test and evaluation functions.

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/no. If yes, identify by T&E functional area and test type.
Possibly, with a change in our mission, T&E type functions may be performed in all areas of materials evaluation which could impact all T&E Functional Areas (with the exception of high energetic materials - since we have no capability to store and handle these materials). In the areas of component, subcomponent, system or subsystem test and evaluation an assessment would have to be performed to determine feasibility. Extra laboratory space is not available at this time.

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DOD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain.
Air: Not applicable Water: Not applicable Land: Yes there is existing AF land in the area of the ML complex which could be used for expansion.

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)? **One laboratory is controlled for security purposes. The Dielectrical Measurement and Optical Properties Measurement Laboratory can support Secret, Special Access Required testing.**

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain.
Yes. See Appendix A.

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DOD? Yes/no. If yes, describe.

Yes. Two of our labs are unique in the U.S.

Optical Measurement Laboratory: This laboratory is considered unique to the US. This is the only optical characterization laboratory that can perform broad band, accurate optical characterization of materials that have modified optical properties.

Laser Hardened Materials Evaluation Laboratory: Wind tunnels are available for the 15 kW and 150 kW lasers. The 15 kW laser wind tunnel simulates Mach 0.05 to 0.9. The 150 kW laser wind tunnel simulates Mach 0.1 to 2.0. Four vacuum chambers are available, ranging from 30" to 22' in diameter. The LHMEL Facility also has tension/compression and beam slewing capabilities. Facility users can be provided with data in the form of one-half inch magnetic tape, 5-1/4" floppy disks, color or black and white plot, tabular data, or RS-232 interface. This facility is considered unique to the US. This is the only 150 kW continuous wave laser with the ability to evaluate materials performance in an aerodynamic environment..

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe.

Several capabilities are unique within the US Government. These capabilities and description of their unique attributes are as follows:

Composite Supportability Laboratory: This laboratory is considered unique to the US Government due to the integrated capability of photographic, nondestructive, optical and x-ray microscopy, chemical and thermal analysis, and material property evaluation.

Two of our labs are unique in the U.S.

Optical Measurement Laboratory: This laboratory is considered unique to the US. This is the only optical characterization laboratory that can perform broad band, accurate optical characterization of materials that have modified optical properties.

Laser Hardened Materials Evaluation Laboratory: Wind tunnels are available for the 15 kW and 150 kW lasers. The 15 kW laser wind tunnel simulates Mach 0.05 to 0.9. The 150 kW laser wind tunnel simulates Mach 0.1 to 2.0. Four vacuum chambers are available, ranging from 30" to 22' in diameter. The LHMEL Facility also has tension/compression and beam slewing capabilities. Facility users can be provided with data in the form of one-half inch magnetic tape, 5-1/4" floppy disks, color or black and white plot, tabular data, or RS-232 interface. This facility is considered unique to the US. This is the only 150 kW continuous wave laser with the ability to evaluate materials performance in an aerodynamic environment..

-3.1.F.1.B Within the US? Yes/no. If yes, describe.

Several capabilities are unique within the US. These capabilities and description of their unique attributes are as follows:

Laser Hardened Materials Evaluation Laboratory: Wind tunnels are available for the 15 kW and 150 kW lasers. The 15 kW laser wind tunnel simulates Mach 0.05 to 0.9. The 150 kW laser wind tunnel simulates Mach 0.1 to 2.0. Four vacuum chambers are available, ranging from 30" to 22' in diameter. The LHMEL Facility also has tension/compression and beam slewing capabilities. Facility users can be provided with data in the form of one-half inch magnetic tape, 5-1/4" floppy disks, color or black and white plot, tabular data, or RS-232 interface. This facility is considered unique to the US. This is the only 150 kW continuous wave laser with the ability to evaluate materials performance in an aerodynamic environment.

-3.1.F.2 Are you currently providing support to DOD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.
Yes

Organization	FY92	FY93
Army	<1%	<1%
Navy	<1%	<1%
FBI		<1%

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?
Not Applicable

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use?
Not Applicable

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are associated with the restricted areas?
Not Applicable

-3.1.G.4 Do you have special use airspace other than supersonic airspace? Yes/no. If yes, for what types of test (e.g. terrain following radar)? Dimensions? Will it support simultaneous users? Yes/no. **Not Applicable**

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each.
Not Applicable

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission.
Not Applicable

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles?
Not Applicable

-3.1.G.8 What public airspace have you used for overflight of weapons systems in the past? What was the nature of those tests? Do you anticipate being able to use that same public airspace for similar tests in the future? Yes/no.
Not Applicable

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/rivers, desert, and sea. State the area of each in square miles.
Not Applicable

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test?
Not Applicable

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years.
Not Applicable

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees?
Not Applicable.

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%?
Not Applicable.

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather?
Not Applicable

-3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather?
Not Applicable

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles?
Not Applicable.

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years.
Not Applicable.

-3.1.H.10 What percentage of the time are your test operations restricted due to weather?
Not Applicable

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

-3.2.A.1 Do supersonic corridors or areas exist? Yes/no.
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.A.2 Where are they located relative to your airfield?
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.A.3 At what altitude (upper and lower altitude)?
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.A.4 Over land or water? What size and shape (length and width)?
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.A.5 Are there restrictions you must observe to use this space? Yes/no. If yes, explain.
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.A.6 What is the maximum number of simultaneous users?
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit: *Extent of air vehicle infrastructure to support T&E operations.*

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space.
Not Applicable.

-3.2.B.2 How close and how many emergency runways or airfields are in your area of operation?
Not Applicable.

-3.2.B.3 Where is your airfield situated relative to working areas (airspace) for supporting test operations?
Not Applicable.

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations?
Not Applicable.

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s).
Not Applicable.

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles?
Not Applicable.

-3.2.C Test Operations (MV II) - Measure of Merit: *Extent of T&E operations that the airspace can accommodate.*

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics)
Not Applicable. The Wright Laboratory/Materials Directorate does not perform system/subsystem and component/subcomponent testing for any of these types of air vehicles. Testing of materials utilized in these air vehicles may be performed at Materials Directorate.

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions?
Not applicable.

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)?
Not applicable.

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions? If yes, explain.
Not applicable.

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace?
Not applicable.

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry?
Not applicable.

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace?
Not applicable.

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation.
This data was provided by Wright Patterson AFB under the BRAC 95 Base Level Request.

3.3 ELECTRONIC COMBAT

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements.*

-3.3.A.1 What is the number of threats simulated?
Not applicable. While the Wright Laboratory/Materials Directorate does evaluate electronic materials, which have an end use in systems and subsystems for electronic combat, the evaluations are performed with the threat in mind and under threat characteristics to provide materials characterizations, however, WL/ML does not do system/subsystem evaluations.

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected? **Not applicable.**

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom?
Not applicable.

-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each.
Not applicable.

-3.3.A.5 What is the threat representation (fidelity) and density?
Not applicable.

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe.
Not applicable.

-3.3.A.7 What geographic dispersion can be simulated?
Not applicable.

-3.3.A.7.A Threat lay down? **Not applicable.**

-3.3.A.7.B Representative distance? **Not applicable.**

-3.3.A.8 Are the threats moveable (i.e. dynamic) within a test scenario? relocatable to new scenarios? yes/no
Not applicable.

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how are you linked?
Not applicable.

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain.
Not applicable.

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which test support satisfies weapon system test requirements.*

-3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/no. If so, identify the limits and measures to remove them.
Not applicable.

-3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated?
Not applicable.

-3.3.B.3 What range of spectra can be tested and evaluated?
Not applicable.

-3.3.B.4 What are the available spectra?
Not applicable.

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe.
Not applicable.

3.4 ARMAMENTS / WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements.*

This includes testing of all types of directed energy weapons.

-3.4.A.1 Do you currently test directed energy weapon systems? Yes/no.
No.

If yes, explain. Describe the power source(s) you have available. What is your maximum downrange distance?

3.4.B Rocket / Missile / Bomb Systems (MV II) - Measure of Merit: *Extent capability satisfies weapon system test requirements.*

This includes the testing of all types of rocket, missile, and bomb systems at the system/subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

-3.4.B.1 Ground Space

-3.4.B.1.A What is the area in square miles of the land and water space which you can use to conduct tests of live rocket, missile, or bomb systems?
Not applicable.

-3.4.B.1.B How many separate and distinct land and water test areas are available to conduct tests of live weapons? List them and the size of each in acres.
Not applicable.

-3.4.B.1.C What are the maximum ranges (nautical miles) you can test, by type weapon?
Not applicable.

3.4.B.2 Test Operations

-3.4.B.2.A For each of your land and water ranges, how many test missions were scheduled in FY92 and FY93 that were required to use safety footprints comparable to those required for the following types of weapons: **Not applicable.**

--Unguided 2000 pound-class ballistic weapon
---live?
---inert?
--Guided weapon (e.g., GBU-24 class)
---live?
---inert?
--Stand-off weapon (e.g., AGM-130 class)
---live?
---inert?
--Short-range missile (e.g., AIM-9)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL
--Long-range missile (e.g., AIM-120)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL

-3.4.B.2.B Were flight termination systems required? Yes/no.
Not applicable.

-3.4.B.2.C If no missions were scheduled in a category, give the reason(s).
Not applicable.

-3.4.B.2.D Were any scheduled missions canceled before the mission, or terminated/aborted during the mission because of encroachments into the safety footprint? Yes/no. If yes, how many per year.
Not applicable.

APPENDIX A - DATA FORMS AND INSTRUCTIONS

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Laser Hardened Materials Evaluation Laboratory

AGE: 18 years REPLACEMENT VALUE: $37,774K

MAINTENANCE AND REPAIR BACKLOG: 0

DATE OF LAST UPGRADE: Jul 93

NATURE OF LAST UPGRADE: Addition of repetitively pulsed capability on LHMEL II device

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Nd:Glass laser reassembly and check-out

   TOTAL PROGRAMMED AMOUNT: $150
   SUMMARY DESCRIPTION: Reassemble, checkout and characterization of the pulsed Nd:Glass laser

2. UPGRADE TITLE:

   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

TECHNICAL INFORMATION

Facility/Capability Title: Laser Hardened Materials Evaluation Laboratory

Facility Description; Including mission statement: Test and evaluate laser effects on advanced materials for future aerospace systems. The design and construction of a 150 kW continuous wave carbon dioxide EDCL was completed in 1988. Equipment: 15 kW Continuous Wave CO_2 Flat-top Laser; 150 kW Continuous Wave CO_2 Flat-top Laser; Mach 0.05 to 2.0 Wind Tunnels; Space Simulation Chambers; Tensile Test Machine
Interconnectivity/Multi-Use of T&E Facility: N/A
Type of Test Supported: laser threshold damage, performance of materials in the combined laser, high speed air environment or space environment
Summary of Technical Capabilities: The 15 kW laser wind tunnel simulates Mach 0.05 to 0.9. The 150 kW laser wind tunnel simulates Mach 0.1 to 2.0. It provides materials testing capabilities over a dynamic range of laser powers, spot sizes, and material or component sizes. There is also an on-site machine shop that fabricates test equipment and an electronics shop that does troubleshooting, simple calibrations, and breadboard design/fabrication.
Keywords: laser, laser materials interactions, flight simulation, space simulation

GENERAL INFORMATION

Facility/Capability Title: Laser Hardened Materials Evaluation Laboratory

Origin Date: 25 Jul 94

Service: USAF Organization/Activity: WL/MLPJ Location: WPAFB, OH

Complete form for FY93

T&E Functional Area: Air Combat, Electronic Combat UIC = unknown

T&E Test Facility Category: Measurements Facility

	T&E	S&T	D&E	IE	T&D	OTHER =100%
PERCENTAGE USE:		100				

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	85
Armament/Weapons	
EC	
Other	15

ADDITIONAL INFORMATION

Facility/Capability Title: Laser Hardened Materials Evaluation Laboratory

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer							
Enlisted							
Civilian	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Contractor	1.0	.8	.8	.8	.8	.8	.8
Total	1.1	.9	.9	.9	.9	.9	.9

Total Square Footage: 15,650

Test Area Square Footage: 15,000

Office Space Square Footage: 650

Tonnage of Equipment: 500 tons

Volume of Equipment: unknown

Annual Maintenance Cost: $150K

Estimated Moving Cost: unknown

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
N/A	N/A	N/A	N/A	N/A	N/A	N/A

The Wright Laboratory facilities that are listed herein have been previously submitted under the "Lab" Joint Cross-Service Data Call
FOR OFFICIAL USE ONLY

TECHNICAL INFORMATION

Facility/Capability Title: Optical Measurement Laboratory

Facility Description; Including mission statement: Accurately and precisely measure the optical properties of materials as a function of wavelength, angle, temperature and polarization. Equipment: Perkin Elmer Lambda 9 UV-Vis-NIR Spectrometer w/ integrating sphere; Bomen DA-3 Fourier Transform Infrared (FTIR) Spectrometer w/Integrating Sphere; Laser Bidirectional Scatterometer (custom design and built by TMA Technologies); Broadband Scatterometer (custom design and built by TMA Technologies); and Directional Emissometer (custom designed by Systems Research Laboratories).
Interconnectivity/Mulit-Use of T&E Facility: N/A
Type of Test Supported: Research and development of optical properties of materials.
Summary of Technical Capabilities: Directional Hemispherical Reflectance (0.25-14 microns, -65°F to +450°F, normal to 70° angle of incidence); Bidirectional Reflectance (DRDF) (0.25-14 microns and 5 laser wavelengths (0.325, 0.6328, 1.06, 3.39, and 10.6 microns; full hemispherical coverage, laser retroreflection, -65°F to +450°F broadband, room temperature laser wavelengths); Directional Emitance (3-14 microns, RT to +450°F, grazing angles); and Transmission (0.185-14 microns, room temperature) Directional hemispherical reflectance (0.25-14mm), -65 F to +450 F, normal to 70 degree angle of incidence); Bidiretional Reflectance
Keywords:Optical Measurment, Visible, Infrared, Near Infrared, Ultraviolet

GENERAL INFORMATION

Facility/Capability Title: Optical Measurement Laboratory Origin Date: 25 Jul 94

Service: USAF Organization/Activity: WL/MLBT

Location: WPAFB, OH Complete form for FY93

T&E Functional Area: Space UIC = unknown

T&E Test Facility Category Measurement Facility

	T&E	S&T	D&E	IE	T&D	OTHER =100%
PERCENTAGE USE:		100				
BREAKOUT BY T&E FUNCTIONAL AREA (%)						
Air Vehicles		60				
Armanent/Weapons						
EC		40				

ADDITIONAL INFORMATION

Facility/Capability Title: Optical Measurement Laboratory

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	.1	.1	.1	.1	.1	.1	.1
Enlisted							
Civilian	.3	.3	.3	.3	.3	.3	.3
Contractor	.4	.5	.5	.5	.5	.5	.5
Total	.8	.9	.9	.9	.9	.9	.9

Total Square Footage: 50,200

Test Area Square Footage: 2214

Office Space Square Footage: 673

Tonnage of Equipmnt: Unknown

Volume of Equipment: Unknown

Annual Maintenance Cost: $50,000

Estimated Moving Cost: Unknown

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
130,000	60,000	100,000	0	0	0	0

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Optical Measurement Laboratory
AGE: 5 Yrs
REPLACEMENT VALUE: $5,922K
MAINTENANCE AND
REPAIR BACKLOG: None
DATE OF LAST UPGRADE: May 1994
NATURE OF LAST
UPGRADE: Lock-in amplifier for scatterometers and repair of receivers

MAJOR
UPGRADES PROGRAMMED

1. UPGRADE TITLE: Unpolarized receiver for Laser Scatterometer
TOTAL
PROGRAMMED AMOUNT: $60,000
SUMMARY DESCRIPTION:
2. UPGRADE TITLE: New computer
& interface for Bomen FTIR Spectrometer
TOTAL
PROGRAMMED AMOUNT: $30,000
SUMMARY DESCRIPTION:

TECHNICAL INFORMATION

Facility/Capability Title: Ultrasonics and X-ray NDE Laboratory

Facility Description; Including mission statement: Provide quick reaction support in the area of non-destructive inspection of components in Air Force and non-DoD systems. Provide consultation in the area of non-destructive inspection, flaw characterization and penetrant material qualification
Interconnectivity/Mulit-Use of T&E Facility: N/A
Type of Test Supported: material characterization, flaw detection, failure analysis of metals and composites
Summary of Technical Capabilities: ultrasonics, X-Ray, eddy current, conductivity, thermography, dye penetrant, magnetic particle inspection
Keywords: metallic and non-metallic failures, non-destructive testing, damage detection

GENERAL INFORMATION

Facility/Capability Title: Ultrasonics and X-ray NDE Laboratory

Origin Date: 20 Jul 94

Service: USAF Organization/Activity: WL/MLSA Location: WPAFB, OH

Complete form for FY93

T&E Functional Area: Air Combat UIC = unknown

T&E Test Facility Category: Measurements Facility

	T&E	S&T	D&E	IE	T&D	OTHER =100%
PERCENTAGE USE:		100				

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	80
Armament/Weapons	
EC	
Other	20

ADDITIONAL INFORMATION

Facility/Capability Title: Ultrasonics and X-ray NDE Laboratory

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer							
Enlisted							
Civilian	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Contractor	0.6	0.5	0.5	0.5	0.5	0.5	0.5
Total	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Total Square Footage: 50,320

Test Area Square Footage: 2,511

Office Space Square Footage: 209

Tonnage of Equipment: 6.5 tons

Volume of Equipment: unknown

Annual Maintenance Cost: $22K

Estimated Moving Cost: unknown

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
0	105	100	100	100	100	100

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Composites Supportability Laboratory

AGE: 19 REPLACEMENT VALUE: $2,788K

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: 1987

NATURE OF LAST UPGRADE: Isolation of Bonding (Press/Autoclave) Pressing Area

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: None

   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: None

   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

TECHNICAL INFORMATION

Facility/Capability Title: Composites Supportability Laboratory

Facility Description; Including mission statement: This facility contains of state-of-the-art equipment to develop repair procedures directly transferable to the flying Air Force. Our mission is to evaluate non-metallic materials and repair processes for Air Force Weapons Systems to support efforts to improve materials behavior of advanced fiber reinforced resin matrix materials, low energy curing resins for adhesives and laminating applications, and near term needs of the Air Force Materiel Command.
Interconnectivity/Mulit-Use of T&E Facility: N/A
Type of Test Supported: Battle damage repairs, bonded repairs, bonded aerospace materials
Summary of Technical Capabilities: This Research and Development lab is dedicated to evaluate, develop and transition to the "using" Commands, at both field and depot levels, the latest materials and process (M&P), and equipment technology supporting advanced composite repairs and maintenance of airframe components.
Keywords: adhesives, bonding, composite materials, quick response, repair

GENERAL INFORMATION

Facility/Capability Title: Composites Supportability Laboratory

Origin Date: 25 Jul 94

Service: USAF Organization/Activity: WL/MLSE Location: WPAFB, OH

Complete form for FY93

T&E Functional Area: Air Combat UIC = unknown

T&E Test Facility Category: Measurements Facility

	T&E	S&T	D&E	IE	T&D	OTHER	=100%
PERCENTAGE USE:		100					

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	85
Armament/Weapons	
EC	
Other	15

ADDITIONAL INFORMATION

Facility/Capability Title: Composites Supportability Laboratory

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Enlisted	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Civilian	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Contractor	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Total	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Total Square Footage: 50,320

Test Area Square Footage: 1,696

Office Space Square Footage: 2,376

Tonnage of Equipment: 6 tons

Volume of Equipment: unknown

Annual Maintenance Cost: $2K

Estimated Moving Cost: unknown

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
0	0	0	0	0	0	0

Document Separator

Wright Laboratory's Avionics Directorate Facilities

The Facilities listed herein have been reported as S&T assets under the "Lab" Joint Cross-Service Data Call

Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

12 August, 1994

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

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3.4.A Directed Energy
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T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components: data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are

programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL

Use the forms and accompanying instructions in appendix A to provide answers for this section.

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package.

Anechoic Chambers and Integrated Circuit Exploitation Facility - SEE FORM. <u>This facility has been reported in the Joint Cross Service Data Call for Laboratories</u>. The direct labor listed in the form is 10% of the total manpower of the facility. The balance of the manpower is used for the primary mission of exploitation and radar system characterization.

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area

shown above.

Anechoic Chambers and Integrated Circuit Exploitation Facility

Functional Area = Electronic Combat. All funding for this facility comes from a classified program element.

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Anechoic Chambers and Integrated Circuit Exploitation Facility
Functional Area = Electronic Combat.
FY92 - 4.4 wyrs. FY93 - 4.4 wyrs.

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

Anechoic Chambers and Integrated Circuit Exploitation Facility - SEE FORM

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? Yes/no.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-2.3.B.1 On the test mission of any other activity?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.

Anechoic Chambers and Integrated Circuit Exploitation Facility - 0%

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/no. If yes, explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO (not connected to any other facilities)

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*
Fill out the Facility Condition Form in Appendix A in accordance with the instructions.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

SECTION 3.1.C IS NOT APPLICABLE

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in

conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.1.D.2 Are specialized targets required to support this facility? Yes/no. If yes, explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/no. If yes, identify by T&E functional area and test type.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO (this facility is totally indoors)

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES ... TOP SECRET, SAR

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/no. If yes, describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES : This facility is unique in its role of threat radar exploitation and testing in an anechoic environment, with accomodations for an entire aircraft and simultaneous ability to test other weapons system components.

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES, see above

-3.1.F.1.B Within the US? Yes/no. If yes, describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES, see above

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES :
FY92 10% NAVY FY93 10% NAVY

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

SECTION 3.1.G IS NOT APPLICABLE

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

SECTION 3.1.H IS NOT APPLICABLE

3.2 AIR VEHICLES

SECTION 3.2 IS NOT APPLICABLE

3.3 ELECTRONIC COMBAT

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements.*

-3.3.A.1 What is the number of threats simulated?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Not Applicable

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Not Applicable

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Not Applicable

-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES, YES, YES

-3.3.A.5 What is the threat representation (fidelity) and density?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Not Applicable

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.3.A.7 What geographic dispersion can be simulated?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Not Applicable

-3.3.A.7.A Threat lay down?
-3.3.A.7.B Representative distance?

-3.3.A.8 Are the threats moveable (i.e.dynamic) within a test scenario? relocatable to new scenarios? yes/no

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how are you linked?

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO : Limitation is based only on available space for units under test and associated radiating elements

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which test support satisfies weapon system test requirements.*

-3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/no. If so, identify the limits and measures to remove them.

Anechoic Chambers and Integrated Circuit Exploitation Facility - NO

-3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Limited only by number of units under test

-3.3.B.3 What range of spectra can be tested and evaluated?

Anechoic Chambers and Integrated Circuit Exploitation Facility - 6-16 GHz

-3.3.B.4 What are the available spectra?

Anechoic Chambers and Integrated Circuit Exploitation Facility - Function of unit under test

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe.

Anechoic Chambers and Integrated Circuit Exploitation Facility - YES : Ability to generate radar targets, target motion, ECM waveforms, jet engine modulation lines; limited ability to generate clutter.

3.4 ARMAMENTS / WEAPONS

SECTION 3.4 IS NOT APPLICABLE

Anechoic Chambers and Integrated Circuit Exploitation Facility Forms Annex

GENERAL INFORMATION

Facility/Capability Title: Anechoic Chambers and Exploitation Facility

Origin Date: 07/20/94

Service: Air Force Organization/Activity: Wright Lab Location: Wright-Patterson AFB

Complete form for FY93

T&E Functional Area: Electronic Combat UIC = _____

T&E Test Facility Category Measurement Facility (HITL)

	T&E	S&T	D&E	IE	T&D	OTHER	=100%
PERCENTAGE USE:	10					90	
BREAKOUT BY T&E FUNCTIONAL AREA (%)							
Air Vehicles							
Armanent/Weapons							
EC	100					100	

Other category is Exploitation

TECHNICAL INFORMATION

Facility/Capability Title: Anechoic Chambers and Exploitation Facility

Facility Description; Including mission statement: 140'L x 50'W x 35'H anechoic chamber, laboratories and equipment to support work from analysis of radar system components through quantitative measurements of system performance. Typical goal is to perform system characterization and determine effectiveness of electronic countermeasures (ECM).
Interconnectivity/Mulit-Use of T&E Facility: None
Type of Test Supported: Weapons system characterization; response to ECM
Summary of Technical Capabilities: Anechoic chambers with large 3-axis gimbals; signal generation for targets, background, and ECM; measurement and recording equipment; computer support for control and analysis;
Keywords:Anechoic Chambers, Exploitation, Radar measurement, ECM

ADDITIONAL INFORMATION

Facility/Capability Title: ANECHOIC CHAMBERS AND INTEGRATED CIRCUIT EXPLOITATION FACILITY

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	3	2	?				
Enlisted	0	0	?				
Civilian	12	11	?				
Contractor	29	29	?				
TOTAL	44	42	?				

Total Square Footage: 50000

Test Area Square Footage: 19000

Office Space Square Footage: 11000

Tonnage of Equipment: 50

Volulme of Equipment: 6000 CUBIC FEET

Annual Maintenance Cost: $483K

Estimated Moving Cost: $1200K

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$2.1M	$1.8M	?				

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Anechoic Chambers and Integrated Circuit Expolitation Facility

AGE: 12 years REPLACEMENT VALUE: $14,000,000

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: 1993

NATURE OF LAST UPGRADE: Additional anechoic chambers for specialized test assets

MAJOR UPGRADES PROGRAMMED: None

1. UPGRADE TITLE:

   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE:

   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE:
Anechoic Chambers and Integrated Circuit Exploitation Facility

		FISCAL YEAR							
T&E FUNCTIONAL AREA		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC	DIRECT LABOR	7200	7700	7700	7900	7900	8700	9100	9100
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Anechoic Chambers and Integrated Circuit Exploitation Facility

ANNUAL HOURS OF DOWNTIME	1 365	
AVERAGE DOWNTIME PER DAY (LINE 1+ 365)	2 1	
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3 23	

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ)
4	5	6	7	8 2024 hrs
Air to Air Simulatio	2	44 hrs	88 hrs.	
				ANNUAL UNCONSTRAINED CAPACITY
				9 738,760 hrs
TYPICAL				
			TOTAL Σ 88 hrs	

Document Separator

Wright Laboratory's Flight Dynamics Directorate Facilities

Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

11 August, 1994

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

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T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components:
data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

The Wright Laboratory Flight Dynamics Directorate has the responsibility for the following T&E facility resources.

NT-33A In-Flight Simulator
NC-131H In-Flight Simulator (TIFS)
Flight Control Actuation System Facility
Aircraft Survivability Research Facility (ASRF)
Structures Research Facility
NF-16D In-Flight Simulator
AFTI/F-16

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity in Appendix A.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package.

The Historical Workload Form provided in Appendix A of this package contains data for the following facilities.

NT-33A In-Flight Simulator
NC-131H In-Flight Simulator (TIFS)
Flight Control Actuation System Facility
Aircraft Survivability Research Facility (ASRF)
Structures Research Facility
NF-16D In-Flight Simulator
AFTI/F-16

No historical data is reported for the Flight Control Actuation Facility because FY94 is the first year that T&E work has been done in the facility.

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

FUNCTIONAL AREA: AIR VEHICLES

	FY92	FY93	FY94
AIRCRAFT SURVIVABILITY RESEARCH FACILITY(PE 64321F)	$4.92M	$1.76M	$1.2M
STRUCTURES RESEARCH FACILITY (PE 64710F)	$425K	$600K	$650K
NT-33A IN-FLIGHT SIMULTOR			
Navy Test Pilot School (1A/2A 12A7F)	$348.7K	$397.4K	$176.3K
AF Test Pilot School (65807F)	$278K	$146.3K	
WL S&T (63245F)	$470.2K	$302.3K	
Handling Qualities S&T (62201F)	$84.6K	$148.7K	$66.4K
NC-131H IN-FLIGHT SIMULATOR			
AF Test Pilot School (65807F)	$535.5K	$597.3K	$401.7K
McDonnell Douglas Transport A/C	$470K	$39.7K$	$68.2K
NASA S&T	$20K		
Handling Qualities S&T (62201F)	$389.2K	$1029K	
WL S&T (63245F)		$405K	
IPTN (Indonesian civilian co.)			$666.4K
WR-ALC (C-141 cockpit upgrade)			$806K

AFTI/F-16				
F16 SPO (27133F)	X			
WL (63245F)	X	X		
WL (63205F)	X	X		
TALON SWORD (63011F)		X	X	

FUNCTIONAL AREA: AIR VEHICLES PROJECTED	FY95	FY96	FY97	FY98
NT-33A In-Flight Simulator				
Navy Test Pilot School (1A/2A 12A7F)	$180K			
Light Combat A/C (Govt of India)	$830K			
NC-131H In-Flight Simulator				
Navy Test Pilot School (1A/2A 12A7F)	$400K	$400K	$400K	$400K
AF Test Pilot School (65807F)	$570K	$600K	$600K	$600K
McDonnell Douglas Transport A/C	$100K			
IPTN	$597K			
JSTARS (flying qualities study)	$250K			
NASA (High Speed Civil Transport)		$500K	$500K	$500K
NASA (Shuttle cockpit)		$600K		
WL S&T (63245F)			$300K	$300K
NF-16D In-Flight Simulator				
Navy Test Pilot School (1A/2A 12A7F)	$190K	$400K	$400K	$400K
AF Test Pilot School (65807F)	$400K	$400K	$400K	$400K
ASC/YF (F-22 SPO) (64239F)	$200K	$1425K	$570K	
WL S&T (63245F)		$400K	$300K	$300K
Joint USAF/Swede Controller Study(62201F)		$500K		
Light Combat A/C (Govt of India)		$600K		
JAST S&T (0603800N)		$500K	$500K	$500K
AIM-9X (63715D)			$1700K	$1700K

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Funcional Area: Air Vehicles
Workyears

	FY92	FY93
NT-33A In-Flight Simulator	**2.66**	**2.66**
NC-131H In-Flight Simulator	**2.28**	**2.28**
Flight Control Actuation Systems Facility*	**0**	**0**
Aircraft Survivability Research Facility	**22.0**	**22.0**
Structures Research Facility	**10.1**	**11.2**
NF-16D In-Flight Simulator*	**0**	**0**
AFTI-F16	**16.0**	**16.0**

* Note: Flight Control Actuation System Facility has not performed T&E work prior to FY94. NF-16D In-Flight Simulator was not available for T&E work prior to FY94.

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). The response is provided by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility

availability, etc?

The AFTI/F-16 and the in-flight simulators NF16D, NC131H, and NT33A are customer funded. Aircraft will be capable of supporting multiple customers at one time as long as any project specific modifications do not interfere with any other project's requirements.

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? **No.**

-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation?
No.

-2.3.B.1 On the test mission of any other activity?
Yes, for the NT-33A , the NC-141H, the NF-16D and the AFTI/F16. They are in-flight simulators which, when used as pre-first flight validation of new vehicle control laws, can uncover design deficiencies and flight conditions that could result in loss of aircraft and/or aircrew. The explosive pilot-induced oscillation that was corrected and tested prior to the actual first YF-17 flight is an example.
Structures Research Facility:
- Life extension evaluation of F-15 and other aircraft systems.

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States? **No.**

SECTION 3: MEASURES OF MERIT

This section relates the measures of merit and the required data to the four criteria that have been established for Military Value. The four military value (MV) criteria are:

CRITERION 1: The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.

CRITERION 2: The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.

CRITERION 3: The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.

CRITERION 4: The cost and manpower implications.

3.1 OVER-ARCHING MEASURES OF MERIT

The over-arching measures of merit are listed with accompanying questions (or data requirements) intended to elicit standard information upon which the cross-service analyses can be based, and on which the Joint Cross-Service Groups can base their reviews of the Military Department analyses. Additional specific measures of merit are shown under individual functional areas. The numbers in parentheses () before each measure of merit indicate the

BRAC selection criteria for military value.

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? **None.**

List the facilities you interconnect to for test and identify how many are simultaneous activities. **None.**

Identify these as to whether they are internal and external to the site. **No interconnectivity.**

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected?

Yes, for the NT-33A, NC-141H, NF-16D and AFTI/F16 In-Flight Simulators. - There are no other sources within DOD for fixed wing in-flight simulations. Flight test of new vehicles would proceed but with an increased risk. Aircraft flying qualities and pilot/vehicle interface research activities would not be able to be conducted in the real flight environment, thereby creating a large degree of risk in specification development. AF and Navy test pilot schools each use the aircraft in their student curriculum. The ability to fly multiple types of aircraft and conduct student projects would seriously hamper their ability to graduate competent test pilots. AFTI/F-16 is also supported by AFFTC and NASA/Dryden.

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*

The Facility Condition Form in Appendix A has been filled out in accordance with the instructions.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

All facilities on Wright-Patterson AFB, including Wright Laboratory, which discharge to the City of Dayton Wastewater Treatment Plant are required to comply with constraints as listed in the City Sewer Use Ordinance. This ordinance prohibits or limits the discharge of specified substances, materials, waters or wastes into the City Sewer systems. Elimination of these substances, or separation and/or pre-treatment of the waste stream (as appropriate) is required to meet the City Ordinance.

All on-base facilities must incorporate Best Management Practices (BMP) to prevent any pollutants from entering the storm sewer system, as required by the Clean Water Act.

Wright-Patterson AFB is located within a non attainment area for ozone. Any new or modified source which emits high levels of volatile organic or nitrogen oxide compounds will have greater restrictions placed upon it.

In Area B of Wright-Patterson AFB (the area wherein most of Wright Laboratory is located), there is one location that restricts future facility development. Bldg 100 is a Wright Laboratory facility that is explosives sited for 70 pounds of Class 1.1 explosives. The construction and facility placement in a revetment allows an explosion's force to be directed straight up. The facility has an established explosive clear zone of 200 feet. There are no other restricted locations in Area B due to explosive detonations/activities.

- **3.1.C.1** Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility?

There are no environmental or encroachment characteristics associated with these facilities.

- **3.1.C.2** How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload.

There is no environmental/ encroachment limit on workload.

- **3.1.C.3** Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? **No.** If so, when do they expire? Please describe.

- **3.1.C.4** What is the total population within a 50 mile radius? **2.4 million** 100 mile radius? **9.1 million** 150 mile radius? **15 million** 200 mile radius? **23.8 million.**

No flight test are conducted at Wright-Patterson AFB.

Typical NT-33A, NC-131H, NF-16D and AFTI/F16 In-Flight Simulator aircraft operations will occur over/around other DoD and contractor facilities such as the Edwards AFB, CA, NAS Patuxent River, MD, and Niagara Falls and Buffalo, NY terminal areas.

- **3.1.C.5** Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space. **None at WPAFB.**

- **3.1.C.5.A** How many test missions per year are canceled due to commercial or public use? **None.**

- **3.1.C.6** What is the number of test missions that have been canceled due to encroachment in each of the last two years? **None,**

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

Wright Laboratory utilizes approximately 30% of Wright-Patterson total peak electrical power load, and 20% of Wright-Patterson annual heating load for special research process loads (this includes requirements in the summer months).

Approximately 2,800 feet of railroad tracks are required in Area B for mission support of Wright Laboratory equipment in the Propulsion CSF. Connection to an active commercial rail system is also required.

Although the "raw" utilities are readily available for use by Wright Laboratory at Wright -Patterson AFB (see answer to Question 3.5.3), many of the conditions and states of these utilities have to be modified to meet R&D mission needs. While the equipment and capabilities to condition these utilities might be called "infrastructure", these systems are typically R&D equipment (i.e. not Real Property) as part of the research capability. The following list is indicative of the type of special "infrastructure" capabilities within Wright Laboratory.

Process Chilled Water - Nearly every Wright Laboratory facility (see answer to Question 3.4.1) requires year-round operation of process chilled water systems in order to provide cooling water for experiments. Cooling towers supporting the chillers include winterization protection capability to support operations during cold winter months.

Electricity - In particular, Wright Laboratory's Structures, Propulsion and Flight Subsytems facilties are very electrical power intensive. Specialized R&D equipment to supply, convert and modify this power include, but are not limited to:

- 44,000 HP Frequency Converter with motor generators
- 6 motor generators to provide speed control of up to 30,000 HP motor load
- 40,000 HP power distribution system and motor for subsonic aerodynamic R&D
- 8,500 HP drive system for trisonic gasdynamic R&D
- 1,000 HP drive system for the Vertical Wind Tunnel
- 1.5 MW electric heater, high pressure air and vacuum

systems for wind tunnels

- 7 high pressure air compressors, 4 turbo-exhausters and 1 gas-fired air heater for altitude simulation supporting 7 propulsion component research cells

- Other "medium" sized facilities which require an average of 2MW per facility

Wright Laboratory's Propulsion, Avionics, Flight Subsystems, Advanced Materials and Electronic Devices facilities require fume hoods to exhaust vapors, products of combustion, etc. out of the room/facility where experiments are being conducted. Many of these fume hood systems require specialized filters or scrubbers.

Several of Wright Laboratory's Propulsion, Avionics, Flight Subsystems, Advanced Materials and Electronic Devices facilities require Clean Rooms to keep impurities away from and out of the experimental area. These are typically Class 100 clean rooms, or better. Many other facilities required special air filtration to minimize dust and dirt entry into the research area.

Eight of Wright Laboratory's Propulsion and two of Wright Laboratory's Flight Subsystems facilities require liquid fuel storage and delivery farms. The approximate total storage quantity is 500,000 gallons of various types and blends of jet fuels, as well as other fuel products.

-3.1.D.1 Do you have specialized facilities that are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing

facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)?

Yes, for the NT-33A, NC-141H, NF-16D and AFTI/F16 In-Flight Simulators. Organizational, intermediate, and depot level airframe maintenance is performed at contractor's facility. Avionics are returned to depots or to commercial sources for intermediate or higher maintenance. Many subsystem maintenance and support activities are performed with the assistance of the Air Guard and Reserve units in the area.

-3.1.D.2 Are specialized targets required to support this facility? **No.**

-3.1.D.2.A Have the specialized targets been validated?
Specialized targets are not used.

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? **No.**

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? **Yes.** If yes, identify by T&E functional area and test type.
Functional Area: Air Vehicles

Test Type: Design Validation
Performance Validation
Aerodynamic Simulation
Weapons Integration and Separation

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? **No.**

-3.1.E.3 Is the facility equipped to support secure operations? **Yes.** If yes, to what level of classification **(Confidential, Secret, Top Secret)**

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? **Yes, as noted below.**

-NF-16D In-Flight Simulator

The development, installation, and verification of a variable feel sidestick in the evaluation cockpit is underway. Plans call for the installation of a thrust vectoring engine/nozzle and its integration into the variable stability system, higher bandwidth actuators, and an upgraded programmable display system including a helmet-mounted sight/display. These modifications will significantly increase simulation fidelity and envelope and allow for the simulation of advanced configurations.

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? **Yes.**

-3.1.F.1.A Within the US Government? **Yes.**

-3.1.F.1.B Within the US? **Yes.**

Descriptions

Structures Research Facility:
- This is the only large scale structures research facility in the world that can perform research under a wide variety of environmental conditions.

Flight Control Actuation Systems Facility:
- Unique in the US in its range of dynamic test conditions for actuator loadings, response, and stroke. Selected by DoD and industry to conduct tests of prototype hardware.

NF-16D In-Flight Simulator:
- Unique in the US because it is the only in-flight simulator aircraft capable of simulating high-performance aircraft at the higher speeds, accelerations, and maneuvering limits of current and future fighter aircraft.

NC-131H In-Flight Simulator:

- **Unique in the US because it is the only operational in-flight simulator aircraft that can duplicate large aircraft characteristics in all six degrees of freedom of motion.**

NT-33A In-Flight Simulator:

- **Unique in the US because it is the only operational in-flight simulator aircraft that can replicate the maneuverability characteristics of another fighter aircraft.**

Aircraft Survivability Research Facility (ASRF):

- **Unique in the US with capability to generate over 500 kts airflow over a full scale aircraft assembly, while loading the section up to 7 "G", while the aircraft contains dangerous materials.**

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? **Yes**. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

	FY92	FY93
NF-16D In-Flight Simulator		
NAVY	25-30%	25-30%
NF-131H In-Flight Simulator		
NAVY	25-30%	25-30%
NT-33A In-Flight Simulator		
NAVY	25-30%	25-30%

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

No air, land, or sea space is required to support T&E tests in the following facilities. They are ground based and completely contained within fixed structures at Wright-Patterson AFB, OH.

- **Flight Control Actuation Simulation Facility**
- **Aircraft Survivability Research Facility**
- **Structures Research Facility**

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI-F16

Adequate restricted airspace is available in the Buffalo, New York area to support required testing. Actual area was not determined, but it has never been a restriction in the past. Testing at Edwards AFB, CA and NAS Patuxant River, MD are conducted within government test ranges.

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use?

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

Restricted airspace near Buffalo, NY consists of Lake

Ontario and various public and privately owned land. Government owns/controls areas of Edwards AFB, CA and NAS Patuxant River, MD.

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are associated with the restricted areas?

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

Unknown; however, any restrictions have not proven to be a problem.

-3.1.G.4 Do you have special use airspace other than supersonic airspace? **No**

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each. **Both. Breakdown is unknown.**

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission. **None known**

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator

-NF-16D In-Flight Simulator
-AFTI/F16

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles? **Unknown. Not a problem as this space also is used by Reserve And Air Guard units that operate KC-135s, C-130s and F-16s.**

-NT-33A In-Flight Simulator
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

-3.1.G.8 What public airspace have you used for overflight of weapon systems in the past? **Restricted airspace R-5203, MISTY-1, and MISTY-3 are used for test operations when performing programs at Buffalo, NY. In-flight simulation missions, to evaluate flying qualities. Continued use of this airspace is planned.** **-NT-33A In-Flight Simulator**
-NC-131H In-Flight Simulator
-NF-16D In-Flight Simulator
-AFTI/F16

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

Fixed Product and Pervasive Functions within Wright Laboratory at Wright-Patterson AFB, there are no positive or negative climatological features which enhance or detract from the activity's mission. Flight test simulators operate in restricted airspace at other DoD or contractor facilities.

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/riverine, desert, and sea. State the area of each in square miles.

No flight tests are conducted at WPAFB. Testing occurs over water, desert, farm land, and forests depending on where testing is occurring: Buffalo, NY, Edwards AFB, CA or NAS Patuxent River, MD.

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test? **No.**

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years. **Customer requirements normally dictate test location.**

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees? **Unknown.**

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%? **Unknown.**

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather? **Approximately 5-10 missions per year were cancelled due to weather for each aircraft.**

-3.1.H.7 What is the number of test days per year (1985 - 1993)

canceled due to weather? **Approximately 5-10 days per year were cancelled due to weather for each aircraft .**

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles? **For operation from Buffalo, NY, visibility is less than one mile approximately 12 days per year. Between one and three miles, approximately 60 days. Visibility greater than three miles is approximately 293 days per year. Operations from Edwards AFB, CA, and Patuxent River, MD are unknown.**

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years. **For operation from Buffalo, NY, average number of flying days available per year for flight test, averaged over the past eight years, is 320 days. Operations from Edwards AFB, CA, and Patuxent River, MD are unknown.**

-3.1.H.10 What percentage of the time are your test operations restricted due to weather? **For operation from Buffalo, NY, ten percent of the time test operations are restricted due to weather. Operations from Edwards AFB, CA, and Patuxent River, MD are unknown.**

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight

preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

The Flight Control Actuation Simulation Facility, the Aircraft Survivability Research Facility, and the Structures Research Facility are ground based and do not use supersonic airspace. The in-flight simulators are flight test aircraft which occasionally require supersonic airspace.

-3.2.A.1 Do supersonic corridors or areas exist? **Not needed. No supersonic airspace requirement.**

-3.2.A.2 Where are they located relative to your airfield?

For operations from Buffalo NY, range is located 40 NM Northeast. Edwards and Patuxent River ranges are available within their respective controlled airspace.

-3.2.A.3 At what altitude (upper and lower altitude)?

For operations at Buffalo NY: FL 300 to FL 500. Unknown at Edwards AFB CA and Patuxent River MD.

-3.2.A.4 Over land or water? What size and shape (length and width)?

For operations at Buffalo NY, corridors are over water; 54 NM x 13 NM.

-3.2.A.5 Are there restrictions you must observe to use this space?

Yes. For operations at Buffalo NY, flight must remain over water, must be headed west (away from shoreline), and must be scheduled.

-3.2.A.6 What is the maximum number of simultaneous users?
For operations at Buffalo NY there is only one user.

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit: *Extent of air vehicle infrastructure to support T&E operations.*
No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space. **No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.B.2 How close and how many emergency runways or airfields are in your area of operation? **No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.B.3 Where is your airfield situated relative to working areas

(airspace) for supporting test operations? **No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations? **No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s). **No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles?

No air vehicle infrastructure is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.

-3.2.C Test Operations (MV II) - Measure of Merit: *Extent of T&E operations that the airspace can accommodate.* **No airspace is**

required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics) **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions? **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)? **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions? If yes, explain. **No airspace is required to**

support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace? **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry? **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace? **No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo, NY, Edwards AFB, CA, and Patuxent River, MD.**

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation.
No airspace is required to support the T&E operation of ground based facilities at WPAFB OH. The in-flight simulators are flight test aircraft which conduct operations from Buffalo,

NY, Edwards AFB, CA, and Patuxent River, MD.

3.3 ELECTRONIC COMBAT

Flight Dynamics facilities do not support electronic combat.

3.4 ARMAMENTS / WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

Wright Lab facilities at WPAFB do not support armament/weapons T&E.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements.*

APPENDIX A - DATA FORMS AND INSTRUCTIONS

1. Form, General Information

Facility/Capability: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

Origin date: Enter today's date in the format MM/DD/YY.

Military Department: Allowable entries include "N" for Navy, "A" for Army, and "AF" for Air Force. If the facility/capability is managed by an "Other Government Agency" (e.g. ARPA, DNA, ACC) enter the appropriate Agency name.

Organization/Activity: Enter the name (with acronym) for the field activity. Example: White Sands Missile Range (WSMR).

WRIGHT LABORATORY (WL)

Location: Enter the location where the facility/capability is physically located (installation, city or other common name).

Wright-Patterson Air Force Base, Ohio

Unit Identification Code (UIC): Enter the UIC.

T&E Functional Area: Enter the single area this facility/capability

primarily supports: Air Vehicles, Armament/Weapons, Electronic Combat, or Other.

T&E Test Facility Category: Enter the facility category based on the following definitions:

(1) Digital Models and Computer Simulations (DMS)- Those models and simulations which either provide a simulated test environment or representations of systems, components, and platforms. DMSs are used throughout the development and test process, as analytical tools, as well as tools to drive or control electronic and other environmental stimuli provided, the test articles on Open Air Ranges (OARs), Installed Systems Test Facilities (ISTFs), Hardware in the Loop Test Facilities (HITLs), Integration Laboratories (ILs), and Measurement Facilities (MFs).

(2) Measurement Facilities (MF)- Those facilities used to provide a specialized test environment and/or data collection capability. MFs may be ground based laboratories or open air facilities (often located at or part of OARs).

(3) Integration Laboratories (IL)- Those facilities designed to support the integration and test of various systems and components that will be installed in a host platform. ILs are generally platform specific or unique. However, the simulated stimuli and data collection capabilities required by ILs are often common with those required by HITLS and ISTFs.

(4) Hardware-In-The-Loop (HITL)- Those facilities which provide capabilities to test systems or their components at various stages of development (e.g., brassboard, breadboard, prototype, preproduction, production). HITLs provide stimuli and data collection capabilities to

permit test and evaluation of a system/component independent of the host platform.

(5) Installed Systems Test Facilities (ISTF)- Ground based test facilities (usually chambers) that allow test of systems and weapons as installed in the combat platform. ISTFs provide simulated test environments and stimuli and data collection capabilities for the test article(s).

(6) Open Air Ranges (OAR)- Those facilities which consist of controlled or restricted areas to support the test of platforms/systems in a real world, dynamic environment. They are instrumented with data collection, time-space-position information, positive control of test participants, and real or simulated targets and threats as appropriate.

Percentage Use: Enter percentage of time, based on hours, the facility is used to support each of the following (total must sum to 100%):

(1) Test and Evaluation (T&E)- Any facility that is accountable to Military Department and/or OSD T&E management oversight. Operation and sustainment of these facilities are typically funded from 6.5 or procurement program elements. Facilities in this category were developed to support developmental and/or operational test and evaluation and focus on the evaluation of system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with system specifications and quality standards.

(2) Science & Technology (S&T)- Any facility that is accountable to Military Department and/or OSD S&T management oversight.

Operation and sustainment of these facilities are typically funded from 6.1, 6.2, and 6.3a program elements. Facilities in this category were developed to support experimental studies leading to enhanced understanding of new phenomena for new military applications as well as efforts directed toward the solution of problems in the physical, behavioral, and social sciences.

(3) Developmental Engineering (DE)- Any facility that is accountable to Military Department and/or OSD Research, Development and Engineering or acquisition management oversight. Operation and sustainment of these facilities are typically funded from 6.3b through 6.4 or procurement program elements. Facilities in this category were developed to support proof-of-principle and engineering development of systems.

(4) In-Service Engineering (IE)- Any facility that is accountable to Military Department and/or OSD logistics management oversight. Operation and sustainment of these facilities are typically funded from 6.7 or Operations and Maintenance (O&M) program elements. Facilities in this category were developed to support the maintenance facilities. These facilities tend to be system peculiar capabilities to conduct checkouts of the system/subsystems after they have undergone a modification, upgrade or improvement.

(5) Training and Doctrine (T&D)- Any facility that is accountable to Military Department and/or OSD training and doctrine management oversight. Operation and sustainment of these facilities are typically funded from O&M program elements. Facilities in this category were developed to support the training and proficiency of operational forces and/or the development of new tactics, doctrine or force structure concepts.

(6) Other - Any work outside the above.

Breakout by T&E Functional Area: For each of the above categories (T&E, S&T, DE, IE, T&D, Other) enter percentage of time facility is used to support Air Vehicles, Armament/Weapons, Electronic Combat, or Other. Total of breakout areas must sum to top line percentage.

2. Form, Technical Information

Facility Description: Enter a brief description of the facility, including the mission statement.

Interconnectivity/Multi-Use of Facility: Describe any linking/interconnectivity with other T&E facilities. Include physical and/or data linkages (bandwidth, data rate, etc.). Describe any unique characteristics or multiple use of the resource (e.g., operating by rotating crew, availability of resource dependent on ..., equipment will be obsolete by ..., etc.)

Type Tests Supported: Enter specific types of tests accomplished by the Facility (e.g., electromagnetic compatibility, radar cross section, missile miss distance, air-to-air radar simulation, etc).

Summary of Technical Capabilities: Describe technical capabilities at your facility to include:

Instrumentation/Assets: Enter instrumentation and other assets (e.g., jammers, target generators, recording equipment, computer support equipment) associated with the resource.

Provide fact sheets, not to exceed two pages.

Keywords: Enter any keywords (spelled-out with acronyms) associated with functions and capabilities of the facility (e.g., electromagnetic interference/electromagnetic compatibility (EMI/EMC), anechoic chamber, radar cross section (RCS)).

3. Form, Additional Information

Additional Information Form. Enter facility name. Provide personnel numbers for FY93, FY94, and each year in the FY95 FYDP broken out according to officers, enlisted, civilians and contractors. Enter total area square footage of indoor space, test area square footage of indoor space used for T&E purposes, and list office space square footage separately. Tonnage of equipment is the weight of all equipment associated with this facility. Volume of equipment is the volume of all equipment associated with this facility. Annual maintenance cost is self explanatory. Moving costs are estimates for packing equipment at the losing site and reassembly, calibration, etc at the receiving site, not including transportation costs. Capital equipment investments are the current improvement and modernization funds as well as any programs funds earmarked for equipment purchase.

4. Form, Facility Condition

Facility/Capability: Enter the descriptive title for the facility/capability.

Age: Indicate the age of the facility/capability as of the date on the General Information Form.

Replacement Value: Enter the replacement value for the

facility/capability. Indicate whether this includes the replacement cost for the equipment.

Maintenance and Repair Backlog: Enter the total dollar amount of the backlog for maintenance and repair items.

Date of Last Upgrade: Date of the last major upgrade to the facility.

Nature of Last Upgrade: Describe the purpose and capability increase from the last major upgrade. Indicate the date this upgrade became available for use.

Major Upgrades Programmed: Enter information on each of the major upgrades that are programmed. Indicate the total programmed amount and provide a summary description of the upgrade.

5. Form, Historical Workload

Use this form to report the workload performed at this facility each year from FY86-93.

Facility/Capability Title: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

T&E Functional Area: For each of these functional areas (Air Vehicles, Armament/Weapons, Electronic Combat, Other Test, and Other), enter direct labor hours, test hours, and/or missions for FY86 through FY93. For open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If

an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

6. Form, Determination of Unconstrained Capacity

Annual Hours of Downtime, 1: If the facility were required to operate continuously for 24 hours a day, seven days a week, 52 weeks a year, determine the number of hours per day the facility can reasonably operate if it is not constrained by personnel strength? Consider your facilities, equipment, and instrumentation fixed at current levels.

1. Add up the total hours of downtime per year for maintenance, weather, darkness (daylight), holidays, etc. Enter in line 1.

Average Downtime Per Day, 2: Divide line 1 by 365 to get the average downtime per day. Fill in at line 2.

Average Hours Available Per Day, 3: Subtract line 2 from 24 hours to get the average number of hours per day the facility is available for test. Fill in at line 3.

Analyze your historic workload mix to determine the average number and type of tests that have been run simultaneously at your facility. Determine the maximum number of tests that can be run simultaneously if there is no limit to personnel authorizations. Enter the following data from your analysis

Test Types, 4: Enter in column 4 the name of the type of test.

Tests at One Time, 5: List the number of each type of test that can be conducted simultaneously in column 5.

Workload Per Test Per Facility Hour, 6: List the workload (reported in units as follows: For open air range flight testing, report workload in flight hours and numbers of missions. For all other test facility categories, including open air range other than flight testing, report workload in direct labor hours) represented by each hour the test is run. Do this at line 6.

From the historic workload analysis, determine the average workload per facility hour represented by the average or "typical" test. In the row titled "TYPICAL", in column 5, enter the number of these "typical" tests that can be run in addition to those already listed above. Enter the workload per "typical" test per facility hour in column 6. To estimate test hours from direct labor hours for the Historic Workload Form, divide the facility workload by this number (the number of direct labor hours per "typical" test per facility hour) and enter in the test hour block on the Historic Workload Form.

Workload Per Facility Hour, 7: Multiply column 5 by column 6. Enter in column 7. Total column 7.

Unconstrained Capacity Per Day, 8: Multiply the total from column 7 by line 3 to get the unconstrained capacity per average day. Enter in line 8.

Annual Unconstrained Capacity, 9: Multiply line 8 by 365 to get the unconstrained capacity per year for the facility. Enter on line 9.

GENERAL INFORMATION

Facility/Capability Title: Structures Research Facility Origin Date: 20 July 94

Service: Air Force Organizational/Activity: Wright Lab
Location: WPAFB

T&E Functional Area: Air Vehicles UIC: Unknown

T&E Test Facility Category: Installed Systems Test (ISTF)

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE :	10	90					

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	10	90
Armanent/Weapons		
EC		
Other		

Total in Breakout Must equal "Percentage Use" On First Line

The Wright Laboratory facilities that are listed herein have been previously submitted under "Lab" Joint Cross-Service Data Call.

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TECHNICAL INFORMATION

Facility/Capability Title: Structures Research Facility

Facility Description; Including mission statement: Experimental investigation and life verification of the fatigue and fracture behavior of structural components and full scale aerospace vehicles. Plan/performs structural certification programs required for basic research, exploratory development, advanced development and mutual support tests for all AFMC elements. Develops technology for static, durability and damage tolerance tests in support of future test requirements including instrumentation, data acquisition, control system, environmental simulation, automation and test management. Providees consultant and audit service for structural certification programs in test project, test data acquisition and test control systems.
Interconnectivity/Multi-Use of T&E Facility: This facility is the center for structures technology inthe Departmentof Defense. Provides the national test capability for other government agencies - Army, Navy, NASA, ARPA, and industry.
Type of Test Supported: Large scale combined high temperature static and fatigue structural tests. Structural test to evaluate metallic, composite, and hybrid structures under severe environmental conditions from cryogenic to elevated temperature.
Summary of Technical Capabilities: Combined thermal/mechanical fatigue research under controlled temperature ranges from -200 to 2300 deg. F; small size structural component test with cryogenic fuel simualtion or actively cooled structures; structuraltesting of aircraft and advanced design concepts; advanced thermal testing of structural components using high intensity radiation.
Keywords: Structures test, fatigue, fracture, durability, damage tolerance, environmental simulation

The Wright Laboratory facilities that are listed herein have been previously submitted under the "Lab" Joint Cross-Service Data Call.

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ADDITIONAL INFORMATION

Facility/Capability Title: Structures Research Facility

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	1	0	0	0	0	0	0
Enlisted	1	0	0	0	0	0	0
Civilian	52	43	41	36	34	34	34
Contractor	18	12	12	12	12	12	12
Total	72	55	53	48	46	46	46

Total Square Footage: 114,978

Test Area Square Footage: 5,000

Office Space Square Footage: 12,068

Tonnage of Equipment: N/A

Volume of Equipment: N/A

Annual Maintenance Cost: $730K

Estimated Moving Cost: N/A

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$200K	$250K	$275K	$300K	$325K	$350K	$375K

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Structures Research Facility

AGE: 50 REPLAEMENT VALUE: $200M (including equipment)

MAINTENANCE AND REPAIR BACKLOG: 18 outstanding work orders

DATE OF LAST UPGRADE: 7 Mar 94 - work continuing to Dec 94

NATURE OF LAST UPGRADE: See Attachment 4A
MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Paint interior walls on main test floor

   TOTAL PROGRAMMED AMOUNT: $250,000
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: Replace heaters on main test floor
   TOTAL PROGRAMMED AMOUNT : $215,000
   SUMMARY DESCRIPTION:

tes

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Structures Research Facility

T&E FUNCTIONAL AREA		FISCAL YEAR 86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR	---	---	14560	12480	14560	14560	18720	208
F-15 Fatigue	TEST HOURS			0	1040	1440	400	1040	136
	MISSIONS								
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Structures Research Facility

ANNUAL HOURS OF DOWNTIME	1525
AVERAGE DOWNTIME PER DAY (LINE 1+ 365)	21.44
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	322.56

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ 8 1714.56
T&E Aircraft Fatigue	3	10	30	ANNUAL UNCONSTRAINED CAPACITY 9 625,814.4
R&D Fuel Tank	2	5	10	
R&D Adv Str 6.3	3	6	18	
R&D Thermal 6.2	2	5	10	
"TYPICAL	1	8	8	
			TOTAL Σ 76	

Attachment 4A

- Roof replacement of high bay, inermediate bays and west offices
- Replacement of asbestos siding on high bay
- Renovation of windows in high bay
- Replacement of high bay louvers
- Replacement of asbestos siding on low bays
- Patching, cleaning and sealing concrete wall surfaces
- Painting of exterior steel
- Replacement of personnel doors in hanger doors
- Painting of main hanger doors
- Insulating west walls of offices - all floors
- Painting of interior steel and roof deck
- Cleaning and sealing of exterior masonry wall surfaces
- Repointing of glass block mortar joints
- Installation of smoke and heat vents

.GENERAL INFORMATION

Facility/Capability Title: Flight Control Actuation Systems Facility Origin Date: 20 July 94

Service: Air Force Organizational/Activity: WL/FIGS Location: WPAFB

T&E Functional Area: Air Vehicles UIC: Unknown

T&E Test Facility Category: (HITL)

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE :	20	80					

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	20	80
Armanent/Weapons		
EC		
Other		

Total in Breakout Must equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: Flight Control Actuation Systems Facility

Facility Description; Including mission statement: The purpose is the research, development and evaluation of flight control actuation technology to reduce complexity and cost of ownership while improving and/or maintaining operational performance of flight control actuators. Facility has unique capability to test evaluate, and provide proof-of-concept/risk reduction of flfight control actuation systems, subsystems and components. Test capabilities include evaluation of linear actuators under actual static and dynamic (high bandwidth high stroke) loads of up to 85,000 lbs., assessment of linear or rotary actuation systems (inlcuding partial control surface) under representative static and dynamic loads (contains 36 loading actuators each capable of 3000 lbs. force) and thermal environments (-100 deg F to +350 deg F).
Interconnectivity/Multi-Use of T&E Facility: None
Type of Test Supported: Control actuation technology assessment, control actuator evaluations
Summary of Technical Capabilities: R&D of flight control actuation and subsystem technology. Test and evaluation of flight control actuation evices (hydraulic and electrically powered) general and multi-purpose actuation test rigs, 3,000 and 8,000 PSI pumping system, 100,000 lbs. load test capability.
Keywords: Actuation, effectors, actuators, flight control system, aircraft hydraulic, powered-by-wire (PBW), more electric aircraft.

ADDITIONAL INFORMATION

Facility/Capability Title: Flight Control Actuation Systems Facility

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	.3	.3	.3	.3	.3	.3	.3
Contractor	6	6	6	6	6	6	6
Total	6.3	6.3	6.3	6.3	6.3	6.3	6.3

Total Square Footage: 6500 sq. ft.

Test Area Square Footage: 6,000 sq.ft.

Office Space Square Footage: 500 sq. ft.

Tonnage of Equipment: 230 tons

Volume of Equipment: 30,000 cu. ft.

Annual Maintenance Cost: $50,000

Estimated Moving Cost: 450,000

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$16,000	$25,000	0	0	0	0	0

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Flight Control Actuation Facility

AGE: 20 yrs

REPLACEMENT VALUE: Facility & Equipment = $7.5M

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: FY91

NATURE OF LAST UPGRADE: Data acquisition/control and environment equipment.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: None
   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: None
   TOTAL PROGRAMMED AMOUNT :
   SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Flight Control Actuation Systems Facility
No Historic T&E

		FISCAL YEAR							
T&E FUNCTIONAL AREA		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Flight Control Actuation Systems Facility

ANNUAL HOURS OF DOWNTIME	1 336
AVERAGE DOWNTIME PER DAY (LINE 1+ 365)	2 .92
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3 23.08

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8
System Development	1	2.5	2.5	57.7
"TYPICAL"				
			TOTAL Σ 2.5	

ANNUAL UNCONSTRAINED CAPACITY
9 21,060

GENERAL INFORMATION

Facility/Capability Title: NT-33A In-Flight Simulator Origin Date: 19 July 94

Service: Air Force Organizational/Activity: WL/FIGD Location: Buffalo NY Calspan Corp's Flight Research Dept.

T&E Functional Area: Air Vehicles ? HITL UIC: Unknown

T&E Test Facility Category: DMS, MF, IL, HIFL

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE:	14%	34%	12%			40%	

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	100%	100%	100%			100%
Armanent/Weapons						
EC						
Other						

Total in Breakout Must equal "Percentage Use" On First Line

H12

TECHNICAL INFORMATION

Facility/Capability Title: NT-33A In-Flight Simulator

Facility Description; Including mission statement: The NT-33A is a highly modified aircraft that can duplicate flight characteristics of other aircraft either actual or proposed. Modifications include programmable fly-by-wire controls from the front evaluation cockpit, a computer system on which the simulated aircraft is modeled, programmable displays, extensive data recording, automatic safety monitoring, manual safety monitoring by highly-qualified safety pilot, an extensive offensive avionics suite (radar, FLIR, EO), and wing mounted sideforce generators. Mission Statement - Enhance weapon system capability and mission effectiveness by evaluating and improving flying qualities and human factors concerns for new aircraft in an actual in-flight environment. Provides training to new test pilots in these areas. Develop and demonstrate new technology concepts as appropriate.
Interconnectivity/Multi-Use of T&E Facility: Typically aircraft will operate on a stand alone basis. The NT-33A has the capability to transmit non-encrypted flight data to ground mission control stations. The NT-33A is scheduled to be retired during CY95.
Type of Test Supported: Pre-first flight control law verification of new aircraft. Supports research and development in flying qualities, human factors, pilot/vehicle interface, avionics and control law development. Provides training to new AF and Navy test pilots in above areas.
Summary of Technical Capabilities: See attached.
Keywords: In-flight simulation, flying qualities, handling qualities, response feedback

ADDITIONAL INFORMATION

Facility/Capability Title: NT-33A In-Flight Simulator

PERSONNEL

NOTE: All three in-flight simulators (NF-16D, NC-33A, NC-131) are managed, maintained, operated, and modified by same government and contractor (Calspan Corp) personnel.

* Represents Calspan's Flight Research Department

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	1	0.5	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	1	1.5	2	2	2	2	2
Contractor	16	17	17	17	17	17	17
Total	18	19	19	19	19	19	19

Total Square Footage: *58,081

Test Area Square Footage: *38,319 **Office Space Square Footage:** *19,762

tes

Tonnage of Equipment: 500 tons equipment* 8.5 tons NT-33A

Volume of Equipment: *2.5M ft^3

Annual Maintenance Cost: $360K

Estimated Moving Cost: *$20M (including people)

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$0	$0	$0	$0	$0	$0	$0

277

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: NT-33A In-Flight Simulator

AGE: Built in 1951 (43 yrs.) REPLACEMENT VALUE: $40 M (includes cost of all onboard hardware and Made into an in-flight simulator in 1957 aircraft.)
MAINTENANCE AND REPAIR BACKLOG: $0

DATE OF LAST UPGRADE: 1994

NATURE OF LAST UPGRADE: Significant increase in test instrumentation system capability.

MAJOR UPGRADES PROGRAMMED N/A; Aircraft to be retired in CY95

1. UPGRADE TITLE:
   TOTAL PROGRAMMEDAMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: _____
   TOTAL PROGRAMMED AMOUNT :
   SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE:NT-33A In-Flight Simulator

T&E FUNCTIONAL AREA		FISCAL YEAR 86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS	366	312	215	243	237	198	200	149
	MISSIONS	267	179	165	207	184	155	155	109
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

tes

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: NT-33A In-Flight Simulator
Aircraft operates on customer basis, i.e. no customer, no flying.

AVERAGE HOURS OF DOWNTIME During typical mission time period (6 weeks) 1. 40
AVERAGE DOWNTIME PER DAY (LINE 1÷ 60) 2. 0.66
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3. 23.34

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7.	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8 23.34
Pre-First flight	1	_____	_____	
R&D	1	_____	_____	ANNUAL UNCONSTRAINED CAPACITY 9 8519
TPS Training	1	_____	_____	
Systems Dev	1	_____	_____	
"TYPICAL"	_____	_____	_____	
		TOTAL Σ	1	

GENERAL INFORMATION

Facility/Capability Title: NC-131H In-Flight Simulator Origin Date: 19 July 94

Service: Air Force Organizational/Activity: WL/FIGD Location: Buffalo NY Calspan Corp's Flight Research Dept.

T&E Functional Area: Air Vehicles UIC: Unknown

T&E Test Facility Category: DMS, MF, IL, HIFL

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE:	12%	16%	6%			66%	

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	100%	100%	100%			100%
Armanent/Weapons						
EC						
Other						

Total in Breakout Must equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: NC-131H In-Flight Simulator

Facility Description; Including mission statement: The NC-131H is a highly modified aircraft that can duplicate the flight characteristics of other aircraft either actual or proposed. Modifications include fly-by-wire controls from the front evaluation cockpit, a computer system on which the simulated aircraft is modeled, programmable displays, extensive data recording, automatic safety monitoring, manual safety monitoring by highly-qualified safety pilot, an extensive offensive avionics suite (radar, FLIR, EO), and wing mounted sideforce generators. Mission Statement - Enhance weapon system capability and mission effectiveness by evaluating and improving flying qualities and human factors concerns for new aircraft in an actual in-flight environment. Provides training to new test pilots in these areas. Develop and demonstrate new technology concepts as appropriate.
Interconnectivity/Multi-Use of T&E Facility: Typically aircraft will operate on a stand alone basis. The NC-131H has the capability to transmit non-encrypted flight data to ground mission control stations.
Type of Test Supported: Pre-first flight control law verification of new aircraft. Supports research and development in flying qualities, human factors, pilot/vehicle interface, avionics and control law development. Provides training to new AF and Navy test pilots in above areas.
Summary of Technical Capabilities: See attached.
Keywords: In-flight simulation, flying qualities, handling qualities, model following

ADDITIONAL INFORMATION

Facility/Capability Title: NC-131H In-Flight Simulator

PERSONNEL

NOTE: All three in-flight simulators (NF-16D, NC-33A, NC-131) are managed, maintained, operated, and modified by same government and contractor personnel. (Calspan Corp.)
* Represents Calspan's Flight Research Department

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	1	0.5	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	1	1.5	2	2	2	2	2
Contractor	16	17	17	17	17	17	17
Total	18	19	19	19	19	19	19

Total Square Footage: *58,081

Test Area Square Footage: *38,319 Office Space Square Footage: *19,762

tes

Tonnage of Equipment: 500 tons equipment* 10 tons NC-131H

Volume of Equipment: *2.5M ft^3

Annual Maintenance Cost: $500K

Estimated Moving Cost: *$20M (including people)

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$2.1M	$665K	$100K	$100K	$100K	$100K	$100K

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: NC-131H In-Flight Simulator

AGE: Built in 1955 (39 yrs.) REPLACEMENT VALUE: $200 M (includes cost of all onboard hardware and Made into an in-flight simulator in 1970 aircraft.)
MAINTENANCE AND REPAIR BACKLOG: $0

DATE OF LAST UPGRADE: 1994

NATURE OF LAST UPGRADE: Incorporation of a Silicon Graphics based electronic programmable display capability..

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE:

   TOTAL PROGRAMMEDAMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: _____

tes

TOTAL PROGRAMMED AMOUNT :
SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE:NC-131H In-Flight Simulator

		FISCAL YEAR							
T&E FUNCTIONAL AREA		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS	388	313	231	298	293	124	151	141
	MISSIONS	228	179	154	167	163	66	85	76
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: NC-131H In-Flight Simulator
Aircraft operates on customer basis, i.e. no customer, no flying.

ANNUAL HOURS OF DOWNTIME During typical mission time period (6 weeks) 1 40
AVERAGE DOWNTIME PER DAY (LINE 1+ 365) 2 0.66
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3 23.34

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8 23.34
Pre-First flight	1	_____	_____	
R&D	1	_____	_____	ANNUAL UNCONSTRAINED CAPACITY 9 8519
TPS Training	1	_____	_____	
Systems Dev	1	_____	_____	
"TYPICAL"	_____	_____	_____	
			TOTAL Σ 1	

GENERAL INFORMATION

Facility/Capability Title: NF-16D In-Flight Simulator Test Aircraft Origin Date: 19 July 94

Service: Air Force Organizational/Activity: WL/FIGD Location: Currently undergoing developmental test & evaluation Edwards AFB CA.

T&E Functional Area: Air Vehicles UIC: Unknown

T&E Test Facility Category: DMS, MF, IL, HIFL

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE:							

BREAKOUT BY T&E FUNCTIONAL AREA (%):
- Air Vehicles
- Armanent/Weapons
- EC
- Other

Total in Breakout Must equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: NF-16D In-Flight Simulator Test Aircraft

Facility Description; Including mission statement: The NF-16D is a highly modified aircraftt that will duplicate flight characteristics of other aircraft, either actual or proposed. Modifications include separate, programmable fly-by-wire controls from the front evaluation cockpit, a computer system on which the simulated aircraft is modeled, extensive data recording, automatic safety monitoring, and manual safety monitoring by a highly qualified safety pilot. Mission Statement - Enhance weapon system capability and mission effectiveness by evaluating and improving flying qualities and human factors concerns for new aircraft in an actual in-flight environment. Provides training to new test pilots in these areas. Develop and demonstrate new technology concepts as appropriate.
Interconnectivity/Multi-Use of T&E Facility: Typically aircraft will operate on a stand alone basis. The NF-16D has the capability to transmit encrypted data and video to ground mission stations. The NF-16D is scheduled to be operational as an in-flight simulator in CY95.
Type of Test Supported: Pre-first flight control law verification of new aircraft. Supports research and development in flying qualities, human factors, pilot/vehicle interface, avionics, weapons integration and control law development. Provides training to new AF and Navy test pilots in above areas.
Summary of Technical Capabilities: See attached.
Keywords: In-flight simulation, flying qualities, handling qualities, response feedback

ADDITIONAL INFORMATION

Facility/Capability Title: NF-16D In-Flight Simulator Test Aircraft

PERSONNEL

NOTE: All three in-flight simulators (NF-16D, NT-33A, NC-131H) are managed, maintained, operated and modified by same government and contractor (Calspan Corp) personnel.

* Represents Calspan's Flight Research Department only

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	1	0.5	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	1	1.5	2	2	2	2	2
Contractor	16	17	17	17	17	17	17
Total	18	19	19	19	19	19	19

Total Square Footage: *58,081

Test Area Square Footage: *38,391 Office Space Square Footage: *19,762

tes

500 tons equipment*

Tonnage of Equipment: 8.5 tons NF-16D **Volume of Equipment:** *2.5M ft^3

Annual Maintenance Cost: unknown; no in-flight simulation mission experience at this time **Estimated Moving Cost:** *$20M (including people)

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$2.0M	$5.7M	$2.0				
dev. of variable feel sidestick	$0.2M	$0.2M	$0.2M			

272

tes

FACILITY CONDITION

FACILITY/CAPABILTY TITLE: NF-16D In-Flight Simulator Test Aircraft
AGE: Built in 1992 (2 yrs) REPLACEMENT VALUE: $75 M (includes cost of all onboard hardware and aircraft.)
made an in-flight simulator in 1994
MAINTENANCE AND REPAIR BACKLOG: $0
DATE OF LAST UPGRADE: 1992
NATURE OF LAST UPGRADE: Aircraft provided from F-16 production line and modified for in-flight simulation capability by incorporating variable stability system, modifying front cockpit as an evaluation cockpit, rear cockpit as a safety cockpit and the incorporation of an extensive instrumentation system.

MAJOR UPGRADES PROGRAMMED
1. UPGRADE TITLE: Simulation capability enhancement
TOTAL ANTICIPATED AMOUNT: $11.5 M
SUMMARY DESCRIPTION: Increase simulation fidelity with higher band width actuators, programmable displays and the integration of thrust vectoring as an enhanced controller.

2. UPGRADE TITLE: Within Visual Range VISTA Systems Program
TOTAL PROGRAMMED AMOUNT : $12.0M
SUMMARY DESCRIPTION: Incorporates a multi-axis thrust vectoring engine/nozzle to increase simulation envelope, a helmet-mounted sight/display into the programmable display system and enhanced weapons communications capability.

tes

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: NF-16D In-Flight Simulator Test Aircraft

T&E FUNCTIONAL AREA		FISCAL YEAR 86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: NF-16D In-Flight Simulator Test Aircraft

ANNUAL HOURS OF DOWNTIME	1
AVERAGE DOWNTIME PER DAY (LINE 1+ 365)	2
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ 8 _____
_____	_____	_____	_____	
	_____	_____	_____	ANNUAL UNCONSTRAINED CAPACITY 9_____
_____	_____	_____	_____	
"TYPICAL"			TOTAL Σ _____	

GENERAL INFORMATION

Facility/Capability Title: Aircraft Survivability Research Facility (ASRF) Origin Date: 19 Jul 94

Service: Air Force Organizational/Activity: Wright Lab Location: WPAFB

T&E Functional Area: Air Vehicles UIC: Unknown

T&E Test Facility Category:

	T&E	S&T	DE	IE	T&D	OTHER	=100%
PERCENTAGE USE:	50	50					

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	50	50
Armanent/Weapons		
EC		
Other		

Total in Breakout Must equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: Aircraft Survivability Research Facility (ASRF)

Facility Description; Including mission statement: The ASRF is both an R&D and T&E facility, 5 ground test ranges are available to conduct aircraft survivability technology research as qwll as survivability testing of current and future DoD weapon system. This is the only facility in th world capable of ammunition modification, and ballistic test, in one building, for calibration and evaluation of new structural material and armor. In addition, contains the only facility which can accurately simulate fire hazards which exist in the compartment (nacelle) surrounding an aircraft engine, and test effectiveness of methods and materials used to detect,prevent, and/or extinguish these fires.
Interconnectivity/Mulit-Use of T&E Facility: The only facility in th US (and world) capable ofgenerating 500 kts airflow (with a 25 ft^2 test section) over a full scale aircraft assembly, while loading the section with up to seven "G's", while the aircraft contains all dangerous subsystems/materials, for non-nuclear combat survivability.
Type of Test Supported: Research, developmenton, test evaluation facility for use with survivability, vulnerability, and related dafety issues for military & civilian aircraft.
Summary of Technical Capabilities: Includes 600kt airflow; 8000ps. hydraulic system simulation; 7g load simulation; 450 gal fuel conditioning; realistic threat impact ranging from small missile fragments to 57mm AAA; aircraft engine fire hazard simulation; modern high speed data acquisition computer system.
Keywords: survivability; live fire tests; impact physics; ozone depleting chemicals; culnerability;thereat simulation; joint live fire; halon; battle damage repair

ADDITIONAL INFORMATION

Facility/Capability Title: Aircraft Survivability Research Facility

PERSONNEL

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	1	1	1	1	1	1	1
Enlisted	1	0	0	0	0	0	0
Civilian	2	3	3	3	3	2	2
Contractor	35	40	40	40	40	35	35
Total	39	44	44	44	44	38	38

Total Square Footage: 50 K

Test Area Square Footage: 50 K sq. ft.

Office Space Square Footage: 5,000 sq. ft.

Tonnage of Equipment: 700 Tons

Volume of Equipment: 1.2M cu. ft.

Annual Maintenance Cost: $80K

Estimated Moving Cost: $750 K

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
200K	150K	100K	100K	100K	100K	100K

tes

FACILITY CONDITION

FACILITY/CAPABILTY TITLE: Aircraft Survivability Research Facility (ASRF)

AGE: 50 yrs REPLACEMENT VALUE: $40 M

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: 1993

NATURE OF LAST UPGRADE: Added 5 jet engine test stands to provide additional airflow capabilityre ~~had~~ material research development.

MAJOR UPGRADES PROGRAMMED None

1. UPGRADE TITLE: N/A
   TOTAL PROGRAMMED AMOUNT:
   SUMMARY DESCRIPTION:

2. UPGRADE TITLE: N/A

tes

TOTAL PROGRAMMED AMOUNT :
SUMMARY DESCRIPTION:

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Aircraft Survivability Research Facility (ASRF)

		FISCAL YEAR						
T&E FUNCTIONAL AREA		86	87	88	89	90	91	92
AIR VEHICLES	DIRECT LABOR	$1.2M	$1.5M	$1.5M	$1.8M	$2M	$2M	$2.3M
	TEST HOURS	4000	4500	4500	4800	5000	5000	5600
	MISSIONS							
EC	DIRECT LABOR							
	TEST HOURS							
	MISSIONS							
ARMAMENT/WEAPONS	DIRECT LABOR							
	TEST HOURS							
	MISSIONS							
OTHER T&E	DIRECT LABOR							
	TEST HOURS							
	MISSIONS							
OTHER	DIRECT							
	TEST HOURS							
	MISSIONS							

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Aircraft Survivability Research Facility (ASRF)

ANNUAL HOURS OF DOWNTIME	1 2900
AVERAGE DOWNTIME PER DAY (LINE 1+ 365)	2 66
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3 17.4

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8
Ballistic Tests	3	20 man hrs.	60 man hrs	1049 x 365
				ANNUAL UNCONSTRAINED CAPACITY 9 381 K
"TYPICAL"				
			TOTAL Σ 60	

GENERAL INFORMATION

Facility/Capability Title: AFTI/F16 Origin Date: 22 July 94

Service: Air Force Organizational/Activity: WL/FIGS/Mgt. Location:
Management @ WL/FIGS
WPAFB; T&E NASA-Dryden &
AFFTL @ Edwards AFB CA

T&E Functional Area: Aircraft Flight Test UIC: Unknown

T&E Test Facility Category: Airplane

	T&E	S&T	DE	IF	T&D	OTHER	=100%
PERCENTAGE USE:	80%	20%					

BREAKOUT BY T&E FUNCTIONAL AREA (%):

Air Vehicles	40	10
Armanent/Weapons	40	10
EC		
Other		

Total in Breakout Must equal "Percentage Use" On First Line

TECHNICAL INFORMATION

Facility/Capability Title: AFTI/F16

Facility Description; Including mission statement: AFTI/F-16 is a BLOCK 40 Plus F-16 used to demonstrate advanced systems and technologies for the Air Force.
Interconnectivity/Multi-Use of T&E Facility:
Type of Test Supported: Flight test of avionics, flight control systems and integrated systems.
Summary of Technical Capabilities: AFTI/F-16 can demonstrate all technologies that can be inserted on or in an F-16. It also has unique capabilities beyond that of normal F-16's, which include Auto Ground Collision Avoidance, In-Flight Route Planner, Database Terrain Following, Automated Maneuvering Attack, Terrain Referenced Nav.
Keywords: AFTI, Automated Systems, Digital Terrain Systems, Real-Time Intelligence in cockpit, Automatic Ground Collision Avoidance, Automatic Database Terrain Folling/Threat Avoidance, Gloc Protection

ADDITIONAL INFORMATION

Facility/Capability Title: AFTI/F16

PERSONNEL

NOTE: All three in-flight simulators (NF-16D, NC-33A, NC-131) are managed, maintained, operated, and modified by same government and contractor (Calspan Corp) personnel.

* Represents Calspan's Flight Research Department only

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	*2 2	*1 0	*1 0				
Enlisted							
Civilian	*5 5	*4 3	*4 4				
Contractor	0	1	1				
Total							

* Edwards AFB CA

tes

Total Square Footage: 1200 } *9000 } 10,200

Test Area Square Footage: 2 Hangers Space

Office Space Square Footage: 10,200 total

Tonnage of Equipment: 15

Volume of Equipment: 20 ft^3 for A/C, 500 ft WL

Annual Maintenance Cost: $500K

Estimated Moving Cost: $500K

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: AFTI/F16

AGE: 16 yrs. REPLACEMENT VALUE: $50 M

MAINTENANCE AND REPAIR BACKLOG: None
DATE OF LAST UPGRADE: 1989

NATURE OF LAST UPGRADE: Upgraded to Block 40 F-16.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Radar to SAR mode

   TOTAL PROGRAMMEDAMOUNT: None
   SUMMARY DESCRIPTION: Integrate AFTI technologies with SAR

2. UPGRADE TITLE: _____
   TOTAL PROGRAMMED AMOUNT :
   SUMMARY DESCRIPTION:

The Wright Laboratory facilities that are listed herein have been previously submitted under "Lab" Joint Cross-Service Data Call.

tes

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE:AFTI/F16

T&E FUNCTIONAL AREA		FISCAL YEAR							
		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR	26	26	26	26	26	20	16	12
	TEST HOURS	178	17	10	15	0	32	32	32
	MISSIONS	156	71	15	20	0	20	20	20
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS	78	16	10	15	0	32	32	32
	MISSIONS	56	10	15	20	0	20	20	20
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT								
	TEST HOURS								
	MISSIONS								

The Wright Laboratory facilities that are listed herein have been previously submitted under the "Lab" Joint Cross-Service Data Call.

tes

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: AFTI/F16

AVERAGE HOURS OF DOWNTIME 1.

*AVERAGE DOWNTIME PER DAY (LINE 1+ 365) 2.

AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3.

(This is an aircraft that is extensively modified for each test. Historical data shows usage of 180 hrs per year)

TEST TYPES 4	TESTS AT ONE TIME 5	WORKLOAD PER TEST PER FACILITY HOUR 6	WORKLOAD PER FACILITY HOUR 7	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ) 8
Sys Dev	1	1	1	
"TYPICAL"				ANNUAL UNCONSTRAINED CAPACITY 9 180
			TOTAL Σ 1	

*** In the case for AFTI, the downtime was normally due to required modification to hardware or software. These downtimes were programmed into the effort and had no effect on the flight test.**

Document Separator

Department of Defense

1995 Base Realignment and Closure T&E Joint Cross-Service Group Data Guidance

March 31, 1994

ARMSTRONG Lab
WPAFB

3/c

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS
1.1 GUIDANCE
1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities/Capabilities
1.1.B Guidance for Military Department Data Collection
1.1.C Guidance for Military Department Data Analysis
1.2 ASSUMPTIONS
1.3 FUNCTIONAL AREAS
1.3.A Air Vehicles
1.3.B Electronic Combat (EC) Systems
1.3.C Armaments/Weapons

SECTION 2: CAPACITY & TECHNICAL RESOURCES
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2.1.A Historical Workload
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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

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3.1.D Specialized Test Support Facilities and Targets
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3.1.G Available Air, Land, and Sea Space
3.1.H Geographic/Climatological Features
3.2 AIR VEHICLES
3.2.A Supersonic Airspace
3.2.B Airfield and Facility Characteristics
3.2.C Test Operations
3.3 ELECTRONIC COMBAT
3.3.A Threat Environment
3.3.B Test Article Support
3.4 ARMAMENTS/WEAPONS
3.4.A Directed Energy
3.4.B Rocket/Missile/Bomb Systems

T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities /

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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Capabilities

1.1.A.1 Scope

All DOD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components:
data collection sensors and instrumentation, data reception and storage, data

processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality. Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

Use the forms and accompanying instructions in appendix A to provide answers for this section.

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

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2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package.

Annual Workload = 30,600 Direct Labor Hours and 4000 to 12,200 Test Hours

Air Vehicles	FY86	87	88	89	90	91	92	93
Labor	3060	30600	30600	30600	30600	30600	30600	30600
Test	12200	10400	6000	4000	4500	4200	4000	4000
Mission	0	0	0	0	0	0	0	0

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

Program Elements: 21009F, 64240F (applicable to all years)

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

Functional Area	FY92	FY93
Air Vehicles	15.3	15.3
Electronic Combat	0.0	0.0
Armament/Weapons	0.0	0.0
Other	0.0	0.0

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming manpower and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in
Appendix A.

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc? NO.

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans? Yes/no. NO.

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-2.3.B Does the facility provide a T&E product or service, without which irreparable harm would be imposed on the test mission of the host installation? NO.

-2.3.B.1 On the test mission of any other activity? NO.

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States? NO.

SECTION 3: MEASURES OF MERIT

This section relates the measures of merit and the required data to the four criteria that have been established for Military Value. The four military value (MV) criteria are:

CRITERION 1: The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.

CRITERION 2: The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.

CRITERION 3: The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.

CRITERION 4: The cost and manpower implications.

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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

3.1 OVER-ARCHING MEASURES OF MERIT

The over-arching measures of merit are listed with accompanying questions (or data requirements) intended to elicit standard information upon which the cross-service analyses can be based, and on which the Joint Cross-Service Groups can base their reviews of the Military Department analyses. Additional specific measures of merit are shown under individual functional areas. The numbers in parentheses () before each measure of merit indicate the BRAC selection criteria for military value.

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site. 0%

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected? Yes/no. If yes, explain. NO. SIDEF is a single point, focused facility conducting man-in-the-loop, real-time simulations of B-1B and B-2 missions. Due to the classified nature of this mission, we are not linked with other facilities. SAR Level III and IV work is performed in these facilities and therefore security regulations prohibit any linkage.

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*
Fill out the Facility Condition Form in Appendix A in accordance with the instructions.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts*

missions.

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain. NO.

-3.1.E.1.A Can you accept new T&E workload different from what you are currently performing? Yes/no. If yes, identify by T&E functional area and test type. NO.

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain. NO.

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

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mile radius? 200 mile radius?

1,000,000 (50 miles)
2,500,000 (100 miles)
8,000,000 (150 miles)
25,000,000 (200 miles)

- 3.1.C.5 Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space.

> **- 3.1.C.5.A** How many test missions per year are canceled due to commercial or public use? NONE. All work done in a research laboratory.

- 3.1.C.6 What is the number of test missions that have been canceled due to encroachment in each of the last two years? NONE.

3.1.D Specialized Test Support Facilities and Targets (MV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe. NO.

-3.1.D.2 Are specialized targets required to support this facility? Yes/no. If yes, explain. NO.

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom? NONE.

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new*

on air, land, and sea space for testing.

- 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation/facility?
Yes/no. If yes, explain. NO.

- 3.1.C.2 How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload. 225%
Physical space limitations are the only limitations. Workload could be expanded from a 9 hour working day to a 20.3 hour working day with no impact except personnel.

- 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? If so, when do they expire? Please describe. NO.

- 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150

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Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

YES. Special Access Request Level III and Level IV.

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain. YES. FY95 will complete the capability to perform SAR for B-1B SDBX programs of the B-1 SPO.

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/no. If yes, describe. YES. This is a unique facility within DOD. No other DOD facility can perform real-time, man-in-the-loop simulations at SAR Level III and IV. No other facility provides the validity suitable for flight test following SIDEF simulations. High fidelity B-1 and B-2 simulations that allow flexibility in aircraft configurations and that can perform at the SAR program level do not exist elsewhere.

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe. YES. See 3.1.F.1.A.

-3.1.F.1.B Within the US? Yes/no. If yes, describe. YES. See 3.1.F.1.A

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department. NO.

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit: *Extent to which controlled test ranges satisfy weapon system test requirements.*

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations? NONE. Tests are run in a laboratory setting.

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use? Does not apply. Tests run in a laboratory.

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are associated with the restricted areas? NONE. Tests run in a laboratory.

-3.1.G.4 Do you have special use airspace other than supersonic airspace? Yes/no. If yes, for what types of test (e.g. terrain following radar)? Dimensions? Will it support simultaneous users? Yes/no. NO.

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each. No airspace. Tests done in a laboratory.

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission.
NONE.

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles? Does not apply. Tests run in a laboratory.

-3.1.G.8 What public airspace have you used for overflight of weapons systems in the

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past? What was the nature of those tests? Do you anticipate being able to use that same public airspace for similar tests in the future? Yes/no. NONE. Tests run in a laboratory.

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit: *Extent to which types of climatic/geographic conditions represent world-wide operational conditions.*

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/riverine, desert, and sea. State the area of each in square miles. NONE. Tests run in a laboratory.

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test? Does not apply. Tests run in a laboratory.

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years. NO.

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees? Does not apply. Tests run in a laboratory setting.

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%? Does not apply. Tests run in a laboratory setting.

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather? NONE.

-3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather? NONE.

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles? Does not apply. Tests run in a

laboratory setting.

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years. Does not apply. Tests run in a laboratory setting.

-3.1.H.10 What percentage of the time are your test operations restricted due to weather? NONE.

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle.

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Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

-3.2.A.1 Do supersonic corridors or areas exist? Yes/no. Does not apply. Tests run in a laboratory setting.

-3.2.A.2 Where are they located relative to your airfield? Does not apply. Tests run in a laboratory setting.

-3.2.A.3 At what altitude (upper and lower altitude)? Does not apply. Tests run in a laboratory setting.

-3.2.A.4 Over land or water? What size and shape (length and width)? Does not apply. Tests run in a laboratory setting.

-3.2.A.5 Are there restrictions you must observe to use this space? Yes/no. If yes, explain. NO.

-3.2.A.6 What is the maximum number of simultaneous users? One user of laboratory at a time.

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit: *Extent of air vehicle infrastructure to support T&E operations.*

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space. Does not apply. Tests are run in a laboratory setting.

-3.2.B.2 How close and how many emergency runways or airfields are in your area of operation? Does not apply. Tests run in a laboratory setting.

-3.2.B.3 Where is your airfield situated relative to working areas (airspace) for supporting test operations? Does not apply. Tests run in a laboratory setting. All necessary working areas are adjacent.

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations? Does not apply. Tests run in a laboratory setting.

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s). NO.

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles? Does not apply. Tests are run in a laboratory setting.

-3.2.C Test Operations (MV II) - Measure of Merit: *Extent of T&E operations that*

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

the airspace can accommodate.

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics) The facility can, and has, supported crew systems and human factors handling qualities and avionics.

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions? Does not apply. Tests run in a laboratory setting.

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)? Does not apply. Tests run in a laboratory setting.

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions? If yes, explain. Does not apply. Tests run in a laboratory setting..

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace? Does not apply. Tests run in a laboratory setting.

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry? Does not apply. Tests run in a laboratory setting.

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace? Does not apply. Tests run in a laboratory setting.

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation. Does not apply. Tests run in a laboratory setting..

3.3 ELECTRONIC COMBAT

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures

in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements. This is not applicable to this facility.*

-3.3.A.1 What is the number of threats simulated?

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom?

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-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each.

-3.3.A.5 What is the threat representation (fidelity) and density?

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe.

-3.3.A.7 What geographic dispersion can be simulated?

-3.3.A.7.A Threat lay down?
-3.3.A.7.B Representative distance?

-3.3.A.8 Are the threats moveable (i.e. dynamic) within a test scenario? relocatable to new scenarios? yes/no

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how are you linked?

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain.

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which test support satisfies weapon system test requirements.* This is not applicable to this facility.

-3.3.B.1 Is there a size, weight, or other limitation on test operations the facility can support? Yes/no. If so, identify the limits and measures to remove them.

-3.3.B.2 What is the number of simultaneous countermeasures that can be evaluated?

-3.3.B.3 What range of spectra can be tested and evaluated?

-3.3.B.4 What are the available spectra?

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe.

3.4 ARMAMENTS / WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements. This is not applicable to this facility.*

This includes testing of all types of directed energy weapons.

-3.4.A.1 Do you currently test directed energy weapon systems? Yes/no.

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If yes, explain. Describe the power source(s) you have available. What is your maximum downrange distance?

3.4.B Rocket / Missile / Bomb Systems (MV II) - Measure of Merit: *Extent capability satisfies weapon system test requirements. This is not applicable to this facility.*

This includes the testing of all types of rocket, missile, and bomb systems at the system/subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

-3.4.B.1 Ground Space

-3.4.B.1.A What is the area in square miles of the land and water space which you can use to conduct tests of live rocket, missile, or bomb systems?

-3.4.B.1.B How many separate and distinct land and water test areas are available to conduct tests of live weapons? List them and the size of each in acres.

-3.4.B.1.C What are the maximum ranges (nautical miles) you can test, by type weapon?

3.4.B.2 Test Operations

-3.4.B.2.A For each of your land and water ranges, how many test missions were scheduled in FY92 and FY93 that were required to use safety footprints comparable to those required for the following types of weapons:

--Unguided 2000 pound-class ballistic weapon
---live?
---inert?
--Guided weapon (e.g., GBU-24 class)
---live?
---inert?
--Stand-off weapon (e.g., AGM-130 class)
---live?

---inert?
--Short-range missile (e.g., AIM-9)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL
--Long-range missile (e.g., AIM-120)
---below 5000 feet MSL
---between 5000 and 20,000 feet MSL
---above 20,000 feet MSL

-3.4.B.2.B Were flight termination systems required? Yes/no.

-3.4.B.2.C If no missions were scheduled in a category, give the reason(s).

-3.4.B.2.D Were any scheduled missions canceled before the mission, or terminated/aborted during the mission because of encroachments into the safety

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footprint? Yes/no. If yes, how many per year.

APPENDIX A - DATA FORMS AND INSTRUCTIONS

1. Form, General Information

Facility/Capability: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

Origin date: Enter today's date in the format MM/DD/YY.

Military Department: Allowable entries include "N" for Navy, "A" for Army, and "AF" for Air Force. If the facility/capability is managed by an "Other Government Agency" (e.g. ARPA, DNA, ACC) enter the appropriate Agency name.

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Organization/Activity: Enter the name (with acronym) for the field activity. Example: White Sands Missile Range (WSMR).

Location: Enter the location where the facility/capability is physically located (installation, city or other common name).

Unit Identification Code (UIC): Enter the UIC.

T&E Functional Area: Enter the single area this facility/capability primarily supports: Air Vehicles, Armament/Weapons, Electronic Combat, or Other.

T&E Test Facility Category: Enter the facility category based on the following definitions:

(1) Digital Models and Computer Simulations (DMS)- Those models and simulations which either provide a simulated test environment or representations of systems, components, and platforms. DMSs are used throughout the development and test process, as analytical tools, as well as tools to drive or control electronic and other environmental stimuli provided, the test articles on Open Air Ranges (OARs), Installed Systems Test Facilities (ISTFs), Hardware in the Loop Test Facilities (HITLs), Integration Laboratories (ILs), and Measurement Facilities (MFs).

(2) Measurement Facilities (MF)- Those facilities used to provide a specialized test environment and/or data collection capability. MFs may be ground based laboratories or open air facilities (often located at or part of OARs).

(3) Integration Laboratories (IL)- Those facilities designed to support the integration and test of various systems and components that will be installed in a host platform. ILs are generally platform specific or unique. However, the simulated stimuli and data collection capabilities required by ILs are often common with those required by HITLS and ISTFs.

(4) Hardware-In-The-Loop (HITL)- Those facilities which provide capabilities to test systems or their components at various stages of development (e.g., brassboard, breadboard, prototype, preproduction, production). HITLs provide stimuli and data collection capabilities to permit test and evaluation of a system/component

independent of the host platform.

(5) Installed Systems Test Facilities (ISTF)- Ground based test facilities (usually chambers) that allow test of systems and weapons as installed in the combat platform. ISTFs provide simulated test environments and stimuli and data collection capabilities for the test article(s).

(6) Open Air Ranges (OAR)- Those facilities which consist of controlled or restricted areas to support the test of platforms/systems in a real world, dynamic environment. They are instrumented with data collection, time-space-position information, positive control of test participants, and real or simulated targets and threats as appropriate.

Percentage Use: Enter percentage of time, based on hours, the facility is used to support each of the following (total must sum to 100%):

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Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

(1) Test and Evaluation (T&E)- Any facility that is accountable to Military Department and/or OSD T&E management oversight. Operation and sustainment of these facilities are typically funded from 6.5 or procurement program elements. Facilities in this category were developed to support developmental and/or operational test and evaluation and focus on the evaluation of system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with system specifications and quality standards.

(2) Science & Technology (S&T)- Any facility that is accountable to Military Department and/or OSD S&T management oversight. Operation and sustainment of these facilities are typically funded from 6.1, 6.2, and 6.3a program elements. Facilities in this category were developed to support experimental studies leading to enhanced understanding of new phenomena for new military applications as well as efforts directed toward the solution of problems in the physical, behavioral, and social sciences.

(3) Developmental Engineering (DE)- Any facility that is accountable to Military Department and/or OSD Research, Development and Engineering or acquisition management oversight. Operation and sustainment of these facilities are typically funded from 6.3b through 6.4 or procurement program elements. Facilities in this category were developed to support proof-of-principle and engineering development of systems.

(4) In-Service Engineering (IE)- Any facility that is accountable to Military Department and/or OSD logistics management oversight. Operation and sustainment of these facilities are typically funded from 6.7 or Operations and Maintenance (O&M) program elements. Facilities in this category were developed to support the maintenance facilities. These facilities tend to be system peculiar capabilities to conduct checkouts of the system/subsystems after they have undergone a modification, upgrade or improvement.

(5) Training and Doctrine (T&D)- Any facility that is accountable to Military Department and/or OSD training and doctrine management oversight. Operation and sustainment of these facilities are typically funded from O&M program elements. Facilities in this category were developed to support the training and proficiency of

operational forces and/or the development of new tactics, doctrine or force structure concepts.

(6) Other - Any work outside the above.

Breakout by T&E Functional Area: For each of the above categories (T&E, S&T, DE, IE, T&D, Other) enter percentage of time facility is used to support Air Vehicles, Armament/Weapons, Electronic Combat, or Other. Total of breakout areas must sum to top line percentage.

2. Form, Technical Information

Facility Description: Enter a brief description of the facility, including the mission statement.

Interconnectivity/Multi-Use of Facility: Describe any linking/interconnectivity with

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

other T&E facilities. Include physical and/or data linkages (bandwidth, data rate, etc.). Describe any unique characteristics or multiple use of the resource (e.g., operating by rotating crew, availability of resource dependent on ..., equipment will be obsolete by ..., etc.)

Type Tests Supported: Enter specific types of tests accomplished by the Facility (e.g., electromagnetic compatibility, radar cross section, missile miss distance, air-to-air radar simulation, etc).

Summary of Technical Capabilities: Describe technical capabilities at your facility to include:

Instrumentation/Assets: Enter instrumentation and other assets (e.g., jammers, target generators, recording equipment, computer support equipment) associated with the resource.

Provide fact sheets, not to exceed two pages.

Keywords: Enter any keywords (spelled-out with acronyms) associated with functions and capabilities of the facility (e.g., electromagnetic interference/electromagnetic compatibility (EMI/EMC), anechoic chamber, radar cross section (RCS)).

3. Form, Additional Information

Additional Information Form. Enter facility name. Provide personnel numbers for FY93, FY94, and each year in the FY95 FYDP broken out according to officers, enlisted, civilians and contractors. Enter total area square footage of indoor space, test area square footage of indoor space used for T&E purposes, and list office space square footage separately. Tonnage of equipment is the weight of all equipment associated with this facility. Volume of equipment is the volume of all equipment associated with this facility. Annual maintenance cost is self explanatory. Moving costs are estimates for packing equipment at the losing site and reassembly, calibration, etc at the receiving site, not including transportation costs. Capital equipment investments are the current improvement and modernization funds as well as any programs funds earmarked for equipment purchase.

4. Form, Facility Condition

Facility/Capability: Enter the descriptive title for the facility/capability.

Age: Indicate the age of the facility/capability as of the date on the General Information Form.

Replacement Value: Enter the replacement value for the facility/capability. Indicate whether this includes the replacement cost for the equipment.

Maintenance and Repair Backlog: Enter the total dollar amount of the backlog for maintenance and repair items.

Date of Last Upgrade: Date of the last major upgrade to the facility.

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Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Nature of Last Upgrade: Describe the purpose and capability increase from the last major upgrade. Indicate the date this upgrade became available for use.

Major Upgrades Programmed: Enter information on each of the major upgrades that are programmed. Indicate the total programmed amount and provide a summary description of the upgrade.

5. Form, Historical Workload

Use this form to report the workload performed at this facility each year from FY86-93.

Facility/Capability Title: Enter the descriptive title for the facility/capability. Avoid using acronyms and abbreviations unless the title defines the acronym. Example: Guided Weapons Evaluation Facility (GWEF).

T&E Functional Area: For each of these functional areas (Air Vehicles, Armament/Weapons, Electronic Combat, Other Test, and Other), enter direct labor hours, test hours, and/or missions for FY86 through FY93. For open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

6. Form, Determination of Unconstrained Capacity

Annual Hours of Downtime, 1: If the facility were required to operate continuously for 24 hours a day, seven days a week, 52 weeks a year, determine the number of hours per day the facility can reasonably operate if it is not constrained by personnel strength? Consider your facilities, equipment, and instrumentation fixed at current levels.

1. Add up the total hours of downtime per year for maintenance, weather, darkness (daylight), holidays, etc. Enter in line 1.

Average Downtime Per Day, 2: Divide line 1 by 365 to get the average downtime per day. Fill in at line 2.

Average Hours Available Per Day, 3: Subtract line 2 from 24 hours to get the average number of hours per day the facility is available for test. Fill in at line 3.

Analyze your historic workload mix to determine the average number and type of tests that have been run simultaneously at your facility. Determine the maximum number of tests that can be run simultaneously if there is no limit to personnel authorizations. Enter the following data from your analysis

Test Types, 4: Enter in column 4 the name of the type of test.

Tests at One Time, 5: List the number of each type of test that can be conducted simultaneously in column 5.

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Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Workload Per Test
Per Facility Hour, 6: List the workload (reported in units as follows: For open air range flight testing, report workload in flight hours and numbers of missions. For all other test facility categories, including open air range other than flight testing, report workload in direct labor hours) represented by each hour the test is run. Do this at line 6.

From the historic workload analysis, determine the average workload per facility hour represented by the average or "typical" test. In the row titled "TYPICAL", in column 5, enter the number of these "typical" tests that can be run in addition to those already listed above. Enter the workload per "typical" test per facility hour in column 6. To estimate test hours from direct labor hours for the Historic Workload Form, divide the facility workload by this number (the number of direct labor hours per "typical" test per facility hour) and enter in the test hour block on the Historic Workload Form.

Workload Per
Facility Hour, 7: Multiply column 5 by column 6. Enter in column 7. Total column 7.

Unconstrained
Capacity Per Day, 8: Multiply the total from column 7 by line 3 to get the unconstrained capacity per average day. Enter in line 8.

Annual
Unconstrained
Capacity, 9: Multiply line 8 by 365 to get the unconstrained capacity per year for the facility. Enter on line 9.

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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility
Origin Date: 7/25/94

Service: AF Orgainzational/Activity: Armstrong Laboratory Location: Wright-Patterson AFB, OH
T&E Functional Area: Air Vehicles UIC:

T&E Test Facility Category: (3) Integration Laboratory

% Use: T&E (25) S&T (15) DE (40) IE (0) T&D (20) Other (0) = 100%

Breakout by T&E Functional Area (%)
Air Vehicles: T&E (25) S&T (15) DE (40) IE (0) T&D (20) Other (0)
(Total in Breakout must equal "% use" on first line

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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

TECHNICAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility

Facility Description; Including mission statement: This facility is designed to determine the effectiveness of the human operator(s) in a weapon system as it relates to the overall effectiveness of the weapon system. It is used to conduct real-time man-in-the-loop simulations to measure human operator effectiveness and modify the crewstation to improve human operator effectiveness. Air vehicle platforms are: B-1B and B-2 bomber aircraft.

Interconnectivity/Multi-use of T&E Facility: Stand alone facility.

Type of Test Supported: Crewstation design and human engineering testing per MIL-STD 1472C/46855B.

Summary of Technical Capabilities: Special Access Request (SAR) Level III and IV facility capable of conducting real-time man-in-the-loop simulations to determine limits for DT&E and TD&E testing.

Keywords: DT&E, TD&E, SAR, human performance, workload, special access request, design test and evaluation, tacitcs development and evaluation.

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ADDITIONAL INFORMATION

Facility/Capability Title: Systems Integration Design Evaluation Facility

Personnel

	FY93	FY94	FY96	FY97	FY98	FY99
Officer*	2.5	2.5	2.5	2.5	2.5	2.5
Enlisted	0	0	0	0	0	0
Civilian*	2.5	2.5	2.5	2.5	2.5	2.5
Contractor	10	10	10	10	10	10
Total	15	15	15	15	15	15

* .5 denotes 1 manyear shared among multiple projects
Total Square Footage: 3840
Total Area Square Footage: 2313
Office Space Square Footage: 0

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GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

Tonnage of Equipment: 8
Volume of Equipment: 9000 cubic feet
Annual Maintenance Cost: $350,000.00
Estimated Moving Cost: $50,000.00
Capital Equipment Investment

FY93	FY94	FY95	FY96	FY97	FY98	FY99
$600,000	$600,000	$600,000	0	0	0	0

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Systems Integration Design Evaluation Facility

AGE: 9 years REPLACEMENT VALUE: $18,000,000

MAINTENANCE AND REPAIR BACKLOG: 0

DATE OF LAST UPGRADE: Ongoing, update in progress.

NATURE OF LAST UPGRADE: Jan 1994 upgrade from Top Secret facility to Special Access Request Level III and Level IV facility for SAR B-2 and B-1B work.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: B-2 Special Access Request Upgrade

GENERAL INFORMATION

Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

TOTAL PROGRAMMED AMOUNT: $600,000
SUMMARY DESCRIPTION: Upgrade from TS to SAR Level III/IV work for B-2 SPO

2. UPGRADE TITLE: SDBX Special Access Request Upgrade
TOTAL PROGRAMMED AMOUNT: $100,000
SUMMARY DESCRIPTION: Upgrade from TS to SAR effort for B-1B SPO

HISTORICAL WORKLOAD

Facility/Capability Title: Systems Integration Design Evaluation Facility

Fiscal Year	86	87	88	89	90	91	92	93
T&E Functional Area								
Air Vehicles								
-Direct Labor	30600	30600	30600	30600	30600	30600	30600	30600
-Test Hours	12200	10400	6000	4000	4500	4200	4000	4000
-Missions	0	0	0	0	0	0	0	0

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Facility/Capability Title: System Integration Design Evaluation Facility (SIDEF)

DETERMINATION OF UNCONSTRAINED CAPACITY

Facility/Capability Title: Systems Integration Design Evaluation Facility

(1)ANNUAL HOURS OF DOWNTIME: 1314 hours
(2)AVERAGE DOWNTIME PER DAY (LINE 1 / 365): 3.6 hours
(3)AVERAGE HOURS AVAILABLE PER DAY (24-LINE 2): 20.4 hours

(4)Test Types: Man-in-the-Loop Simulations
(5)Tests At One Time: 1
(6)Workload Per Test Per Facility Hour: 1
(7)Workload Per Facility Hour: 1
Total: 1

(8)Unconstrained Capacity per day (line 3X Total Sum): 20.4 hours

(9)Annual Unconstrained Capacity: 7446 hours

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FY01 T&E Workload Requirements (test hours)

Air Vehicles

Test Facility Category	Sub-Category	Projected Workload
Digital Models & Simulations	None	1,273
Measurement Facilities	Avionics & Aircraft Subsystems	3,951
	Commuication/Navigation/Antenna	1,136
	Environmental/Vibration/Structures	23,158
	Electro-Magnetic Environmental Effects	943
	Guidance/Sensor/Signature	30,719
	Propulsion	25,854
	Sled Tracks	170
Integration Laboratories	None	81,870
Hardware-in-the-Loop	None	114,171
Installed System Test Facility	None	9,674
Open Air Ranges	None	27,578

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FY01 T&E Workload Requirements (test hours)

Air Vehicles

Test Facility Category	Sub-Category	Projected Workload
Digital Models & Simulations	None	1,273
Measurement Facilities	Avionics & Aircraft Subsystems	2,631
	Commuication/Navigation/Antenna	1,136
	Environmental/Vibration/Structures	23,158
	Electro-Magnetic Environmental Effects	943
	Guidance/Sensor/Signature	30,719
	Propulsion	25,854
	Sled Tracks	170
Integration Laboratories	None	81,806
Hardware-in-the-Loop	None	114,171
Installed System Test Facility	None	9,674
Open Air Ranges	None	27,578

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T&E Capacity
(test hours)

Air Vehicles

Activity: Electronic Proving Ground

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	0
Measurement Facilities	Avionics & Aircraft Subsystems	1,177
	Commuication/Navigation/Antenna	0
	Environmental/Vibration/Structures	1,681
	Electro-Magnetic Environmental Effects	0
	Guidance/Sensor/Signature	0
	Propulsion	0
	Sled Tracks	0
Integration Laboratories	None	0
Hardware-in-the-Loop	None	0
Installed System Test Facility	None	0
Open Air Ranges	None	646

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Air Vehicles

Test Facility Category	Sub-Category	Capacity (Test Hours)	Projected Workload (Test Hours)	Excess Capacity (Test Hours)	Excess Capacity (%)
Digital Models & Simulations		3,380	1,273	2,107	**62%**
Measurement Facilities					**37%**
	Avionics & Aircraft	9,687	3,951	5,736	59%
	Communication, Navigation, Antenna	2,091	1,136	955	46%
	Environmental, Vibration, Structures	35,314	23,158	12,156	34%
	Electro-Magnetic Environmental Effects	3,347	943	2,404	72%
	Guidance, Sensor, Signature	47,487	30,719	16,768	35%
	Propulsion	37,155	25,854	11,301	30%
	Sled Tracks	614	170	444	72%
Integration Laboratories		138,167	81,870	56,297	**41%**
Hardware-In-The-Loop		166,054	114,171	51,883	**31%**
Installed System Test Facility		16,087	9,674	6,413	**40%**
Open Air Ranges		53,761	27,578	26,183	**49%**

Test Facility Category	AEDC Arnold	AFFTC Edwards	AFDTC Eglin	UTTR Hill	Holloman (WSMR)	476WEG Tyndall	ATTC Rucker	ATTC/ AQTD Edwards	WSMR EPG	YPG Yuma
					Capacity by Activity					
Digital Models & Simulations		1987								
Measurement Facilities										
Avionics & Aircraft		1822							4709	
Communication, Navigation, Antenna										
Environmental, Vibration, Structures		1570	6816						1681	297
Electro-Magnetic Environmental Effects										
Guidance, Sensor, Signature			245		42200					
Propulsion	4815									
Sled Tracks					614					
Integration Laboratories		118999								
Hardware-In-The-Loop						2683				
Installed System Test Facility		1968								
Open Air Ranges		11998		3380			12050	2626	646	6028

NAWC Pt. Mugu	NAWC China Lake	NSWC Dahlgren	NAWC Indian-apolis	NAWC Patuxent	NAWC Warmin-ster	Totals
					1393	3380
				3156		9687
				2091		2091
575	1157		23218			35314
		3347				3347
	2138			2904		47487
				32340		37155
						614
			14288	4880		138167
				163371		166054
				14119		16087
4787				12246		53761

T&E Capacity
(test hours)

Air Vehicles

(1) **Activity:** AEDC - ARNOLD AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	4815
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

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10/12/94

T&E Capacity
(test hours)

Air Vehicles

② **Activity:** AFFTC - EDWARDS AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	1987
Measurement Facilities	Avionics & Aircraft Subsystems	1822
	Communication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	1570
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	118999
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	1968
Open Air Ranges	None	11998

10/12/94 1700
10/12/94 1206
10/12/94

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T&E Capacity
(test hours)

Air Vehicles

③ **Activity:** AFDTC - EGLIN AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	6816
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	245
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

10/12/94 1700
10/12/94 1706
10/12/94

T&E Capacity
(test hours)

Air Vehicles

④ **Activity:** UTTR - HILL AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	3380

10/12/94 1700
10/12/94 1706
10/12/94

T&E Capacity
(test hours)

Air Vehicles

(5) **Activity:** HOLLOMAN - AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	42200
	Propulsion	Ø
	Sled Tracks	614
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

10/12/94 1700
10/12/94 1706
10/12/94

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T&E Capacity
(test hours)

Air Vehicles

⑥ **Activity:** 476 WEG - TYNDALL AFB

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	2683
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

10/12/94 1700
10/12/94 1706
10/12/94

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T&E Capacity
(test hours)

Air Vehicles

(7) **Activity:** ATTC - FT RUCKER

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	12050

10/12/94 1700
10/12/94 1706
10/12/94

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T&E Capacity
(test hours)

Air Vehicles

(8) Activity: ATQD ATTU - EDWARDS

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	2626

10/12/94 1700
10/12/94 1706
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T&E Capacity
(test hours)

Air Vehicles

(9) **Activity:** EPG - FT HUCHUCA

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	4709
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	1681
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	646

10/12/94 1700
10/12/94 1706
10/12/94

T&E Capacity
(test hours)

Air Vehicles

(12) **Activity:** YPG - YUMA

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	297
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	6028

10/12/94 1700
10/12/94 1706
10/12/94

T&E Capacity
(test hours)

Air Vehicles

(11) **Activity:** NAWCWPNS - PT MUGU

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	575
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	4787

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10/12/94 1706
10/12/94

T&E Capacity
(test hours)

Air Vehicles

(2) **Activity:** NAWC - CHINA LAKE

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	1157
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	2138
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

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T&E Capacity
(test hours)

Air Vehicles

(13) **Activity:** NSWC - DAHLGREN

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	3347
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

10/12/94 1700

10/12/94 1700

10/12/94

T&E Capacity
(test hours)

Air Vehicles

(14) **Activity:** NAWCAD – INDIANAPOLIS

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	23218
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	14288
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

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T&E Capacity
(test hours)

Air Vehicles

(15) **Activity:** NAWCAD - PAX RIVER

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	Ø
Measurement Facilities	Avionics & Aircraft Subsystems	3156
	Commuication/Navigation/Antenna	2091
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	2904
	Propulsion	32340
	Sled Tracks	Ø
Integration Laboratories	None	4880
Hardware-in-the-Loop	None	163371
Installed System Test Facility	None	14119
Open Air Ranges	None	12246

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10/12/94 1700
10/12/94

T&E Capacity
(test hours)

Air Vehicles

Activity: NAWCAD - WARMINSTER

Test Facility Category	Sub-Category	Capacity
Digital Models & Simulations	None	1393
Measurement Facilities	Avionics & Aircraft Subsystems	Ø
	Commuication/Navigation/Antenna	Ø
	Environmental/Vibration/Structures	Ø
	Electro-Magnetic Environmental Effects	Ø
	Guidance/Sensor/Signature	Ø
	Propulsion	Ø
	Sled Tracks	Ø
Integration Laboratories	None	Ø
Hardware-in-the-Loop	None	Ø
Installed System Test Facility	None	Ø
Open Air Ranges	None	Ø

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Document Separator

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

	WEIGHT		AEDC	AFFTC	AFDTC
			o.k. DJD DRS	o.k. DJD DRS	o.k. DJD DRS
CRIT AIR/LAND/SEA SP	910		0.0000	8.3000	7.3000
CRIT AIR/LAND/SEA SP	910		0.0000	8.3000	7.3000
CRIT AIR/LAND/SEA SP	910		0.0000	8.3000	7.3000
CRIT AIR/LAND/SEA SP	910		0.0000	8.3000	7.3000
CRIT AIR/LAND/SEA SP	910		0.0000	8.3000	7.3000
TOPOGRAPHICAL	650		0.0000	10.0000	7.2000
CLIMATIC	650		10.0000	9.8400	9.5600
ENCROACHMENT	325		9.8800	8.2800	9.7500
ENVIRONMENTAL	325		10.0000	10.0000	10.0000
PHYSICAL	---	6500	2.0	8.7	7.8
DIGITAL MODELS & SIM	175		0.0000	9.5000	0.0000
MEASUREMENT FACS	525		10.0000	9.0000	10.0000
INTEGRATION LABS	175		0.0000	10.0000	0.0000
HITL	525		0.0000	0.0000	0.0000
ISTF	700		0.0000	10.0000	0.0000
OPEN AIR RANGES	700		0.0000	9.5600	0.0000
OPEN AIR RANGES	700		0.0000	9.5600	0.0000
TECHNICAL	---	3500	1.5	8.1	1.5
		===			
SCORE		10000	1.8	8.5	5.6
RANK			15	1	4

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

	WEIGHT		UTTR	HOLLOMAN	476 WEG
			O.K. DJD DRJ	O.K. DJD DRJ	O.K. DJD DRJ
CRIT AIR/LAND/SEA SP	910		4.7400	2.9200	6.3600
CRIT AIR/LAND/SEA SP	910		4.7400	2.9200	6.3600
CRIT AIR/LAND/SEA SP	910		4.7400	2.9200	6.3600
CRIT AIR/LAND/SEA SP	910		4.7400	2.9200	6.3600
CRIT AIR/LAND/SEA SP	910		4.7400	2.9200	6.3600
TOPOGRAPHICAL	650		4.2000	2.8000	3.0000
CLIMATIC	650		9.5200	9.9200	9.4800
ENCROACHMENT	325		9.8500	9.9100	9.8000
ENVIRONMENTAL	325		10.0000	10.0000	10.0000
PHYSICAL	---	6500	5.7	4.3	6.7
DIGITAL MODELS & SIM	175		0.0000	0.0000	0.0000
MEASUREMENT FACS	525		0.0000	10.0000	0.0000
INTEGRATION LABS	175		0.0000	0.0000	0.0000
HITL	525		0.0000	0.0000	10.0000
ISTF	700		0.0000	0.0000	0.0000
OPEN AIR RANGES	700		6.4300	0.0000	0.0000
OPEN AIR RANGES	700		6.4300	0.0000	0.0000
TECHNICAL	---	3500	2.6	1.5	1.5
		===			
SCORE		10000	4.6	3.3	4.9
RANK			6	12	5

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

	WEIGHT	ATTC-FORT RUCKER	ATTC-EDWARDS	EPG
		O.K. DJD DRJ	O.K. DJD DRJ	O.K. DJD DRJ
CRIT AIR/LAND/SEA SP	910	3.2100	5.0500	3.5200
CRIT AIR/LAND/SEA SP	910	3.2100	5.0500	3.5200
CRIT AIR/LAND/SEA SP	910	3.2100	5.0500	3.5200
CRIT AIR/LAND/SEA SP	910	3.2100	5.0500	3.5200
CRIT AIR/LAND/SEA SP	910	3.2100	5.0500	3.5200
TOPOGRAPHICAL	650	4.2000	5.6000	4.2000
CLIMATIC	650	9.1200	9.9400	10.0000
ENCROACHMENT	325	9.5900	8.2800	9.8900
ENVIRONMENTAL	325	10.0000	10.0000	10.0000
PHYSICAL	--- 6500	4.6	6.0	4.9
DIGITAL MODELS & SIM	175	0.0000	0.0000	0.0000
MEASUREMENT FACS	525	0.0000	0.0000	10.0000
INTEGRATION LABS	175	0.0000	0.0000	0.0000
HITL	525	0.0000	0.0000	0.0000
ISTF	700	0.0000	0.0000	0.0000
OPEN AIR RANGES	700	3.2800	5.0500	5.3900
OPEN AIR RANGES	700	3.2800	5.0500	5.3900
TECHNICAL	--- 3500	1.3	2.0	3.7
	===			
SCORE	10000	3.4	4.6	4.4
RANK		11	6	8

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

	WEIGHT		USA YPG NAWCWPNS-POINT	MUGU	NAWC-CHINA LAKE
CRIT AIR/LAND/SEA SP	910		1.9600	7.6300	5.0200
CRIT AIR/LAND/SEA SP	910		1.9600	7.6300	5.0200
CRIT AIR/LAND/SEA SP	910		1.9600	7.6300	5.0200
CRIT AIR/LAND/SEA SP	910		1.9600	7.6300	5.0200
CRIT AIR/LAND/SEA SP	910		1.9600	7.6300	5.0200
TOPOGRAPHICAL	650		2.8000	10.0000	4.2000
CLIMATIC	650		9.8600	9.3400	9.8800
ENCROACHMENT	325		9.8700	7.3100	9.1500
ENVIRONMENTAL	325		10.0000	10.0000	10.0000
PHYSICAL	---	6500	3.6	8.1	5.9
DIGITAL MODELS & SIM	175		0.0000	0.0000	0.0000
MEASUREMENT FACS	525		10.0000	9.0000	10.0000
INTEGRATION LABS	175		0.0000	0.0000	0.0000
HITL	525		0.0000	0.0000	0.0000
ISTF	700		0.0000	0.0000	0.0000
OPEN AIR RANGES	700		4.3100	8.2800	0.0000
OPEN AIR RANGES	700		4.3100	8.2800	0.0000
TECHNICAL	---	3500	3.2	4.7	1.5
		===			
SCORE		10000	3.5	6.9	4.3
RANK			10	3	9

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

DRS O.K. DJD DRS O.K. DJD DRS

	WEIGHT	NSWC-DAHLGREN	NAWCAD-INDIANAPOLIS	NAWCAD-PATUXENT
CRIT AIR/LAND/SEA SP	910	1.8300	0.0000	7.2600
CRIT AIR/LAND/SEA SP	910	1.8300	0.0000	7.2600
CRIT AIR/LAND/SEA SP	910	1.8300	0.0000	7.2600
CRIT AIR/LAND/SEA SP	910	1.8300	0.0000	7.2600
CRIT AIR/LAND/SEA SP	910	1.8300	0.0000	7.2600
TOPOGRAPHICAL	650	1.4000	0.0000	8.6000
CLIMATIC	650	7.2400	10.0000	9.3400
ENCROACHMENT	325	8.1500	8.8200	8.4600
ENVIRONMENTAL	325	10.0000	10.0000	10.0000
PHYSICAL	--- 6500	3.1	1.9	7.8
DIGITAL MODELS & SIM	175	0.0000	0.0000	0.0000
MEASUREMENT FACS	525	10.0000	9.5000	10.0000
INTEGRATION LABS	175	0.0000	9.5000	10.0000
HITL	525	0.0000	0.0000	10.0000
ISTF	700	0.0000	0.0000	10.0000
OPEN AIR RANGES	700	0.0000	0.0000	8.1300
OPEN AIR RANGES	700	0.0000	0.0000	8.1300
TECHNICAL	--- 3500	1.5	1.9	8.8
	===			
SCORE	10000	2.5	1.9	8.1
RANK		13	14	2

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

	WEIGHT		NAWCADWAR o.k. DJD	RATING SCALE
CRIT AIR/LAND/SEA SP	910		0.0000	0-10 SCALE
CRIT AIR/LAND/SEA SP	910		0.0000	0-10 SCALE
CRIT AIR/LAND/SEA SP	910		0.0000	0-10 SCALE
CRIT AIR/LAND/SEA SP	910		0.0000	0-10 SCALE
CRIT AIR/LAND/SEA SP	910		0.0000	0-10 SCALE
TOPOGRAPHICAL	650		0.0000	0-10 SCALE
CLIMATIC	650		10.0000	0-10 SCALE
ENCROACHMENT	325		7.9700	0-10 SCALE
ENVIRONMENTAL	325		10.0000	0-10 SCALE
PHYSICAL	---	6500	1.9	GROUP SUBTOTAL
DIGITAL MODELS & SIM	175		9.5000	0-10 SCALE
MEASUREMENT FACS	525		0.0000	0-10 SCALE
INTEGRATION LABS	175		0.0000	0-10 SCALE
HITL	525		0.0000	0-10 SCALE
ISTF	700		0.0000	0-10 SCALE
OPEN AIR RANGES	700		0.0000	0-10 SCALE
OPEN AIR RANGES	700		0.0000	0-10 SCALE
TECHNICAL	---	3500	0.5	GROUP SUBTOTAL
		===		
SCORE		10000	1.4	
RANK			16	

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

NOTES FOR ALTERNATIVES: none

NOTES FOR CRITERIA:

CRIT AIR/LAND/SEA SP: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

TOPOGRAPHICAL: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

CLIMATIC: Criterion: 0-10 SCALE (0 Score 0 Points, Maximum Value Scores 10 Points)

ENCROACHMENT: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

ENVIRONMENTAL: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

DIGITAL MODELS & SIM: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

MEASUREMENT FACS:
Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

INTEGRATION LABS: Criterion: 0-10 SCALES (0 Scores 0 Points, Maximum Value Scores 10 Points)

HITL: Criterion: 0-10 SCALES (0 Scores 0 Points, Maximum Value Scores 10 Points)

ISTF: Criterion: 0-10 SCALE (0 Scores 0 Points, Maximum Value Scores 10 Points)

NOTES FOR DATA ITEMS: none

CRITERION RATING SCALE DEFINITIONS:

0-10 SCALE: Scores 10.0000 high, 0.0000 low

T&E JCSG MODEL FOR AIR VEH EVAL QUESTIONS

OK DRS

RANK	SCORE	ALTERNATIVE
1	8.5	AFFTC
2	8.1	NAWCAD-PATUXENT
3	6.9	NAWCWPNS-POINT MUGU
4	5.6	AFDTC
5	4.9	476 WEG
6	4.6	ATTC-EDWARDS
6	4.6	UTTR
8	4.4	EPG
9	4.3	NAWC-CHINA LAKE
10	3.5	USA YPG
11	3.4	ATTC-FORT RUCKER
12	3.3	HOLLOMAN
13	2.5	NSWC-DAHLGREN
14	1.9	NAWCAD-INDIANAPOLIS
15	1.8	AEDC
16	1.4	NAWCADWAR

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	AEDC OK Rel	AFFTC OK Rel	AFDTC OK Rel
AVAIL TEST LAND SPAC	150	0.0011	0.5049	0.0490
AVAIL TEST SEA SPACE	150	0.0000	0.9068	0.9950
LAND RESTRICT NONE	0	N	N	N
LAND RESTRICT SOME	20	N	Y	Y
LAND RESTRICT ALL	50	N	N	N
SIZE RESTR AIR SPACE	150	0.0000	0.9817	0.8565
MAX TO MIN ALT RESTR	70	0.0000	100000.0000	100000.0000
AIR AVAIL OVER LAND	75	0.0000	0.9428	0.4287
AIR AVAIL OVER SEA	75	0.0000	0.9071	0.9950
MAX LINE SEG AIRSPAC	25	0.0000	0.4532	0.6000
SUPERSONIC CORRIDORS	70	N	Y	Y
MIN TO MAX ALT SUPER	70	0.0000	100000.0000	100000.0000
MAX LINE SEG SUPERSO	25	0.0000	0.8366	0.9360
MIN ALT RESTRICT AIR	70	1.0000	0.0000	0.0000
CRIT AIR/LAND/SEA SP	--- 1000	0.0	8.3	7.3
MOUNTAINS	140	N	Y	N
FOREST/JUNGLE	140	N	Y	Y
CULTIVATED LOWLAND	140	N	Y	Y
SWAMP/RIVERINE	140	N	Y	Y
DESERT	140	N	Y	N
SEA	300	N	Y	Y
TOPOGRAPHICAL	--- 1000	0.0	10.0	7.2
AVG %DAYS VIS > 3 MI	600	100.0000	100.0000	98.1000
AVG % NOT CANCEL WEA	400	100.0000	95.6000	92.3000
CLIMATIC	--- 1000	10.0	9.8	9.6
AVG % NOT CANCEL C/P	350	100.0000	100.0000	100.0000
% MSNS NOT CANC ENCR	350	100.0000	100.0000	100.0000
POP IN 50 MILE RADII	120	70000.0000	313000.0000	253144.0000
POP IN 100 MILE RADI	90	790000.0000	16070000.0000	1205794.0000
POP IN 150 MILE RADI	60	955000.0000	18028120.0000	2417482.0000

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	AEDC OK RED	AFFTC OK RED	AFDTC OK RED
POP IN 200 MILE RADI	30	2405000.0000	20489920.0000	4383864.0000
ENCROACHMENT	--- 1000	9.9	8.3	9.8
FAC LIMIT BY ENVIRON	500	N	N	N
FAC LIMIT BY ENVIRON	500	N	N	N
ENVIRONMENTAL	--- 1000	10.0	10.0	10.0
FAC SPT TEST OPS	900	N	Y	N
IRREP HARM TO FORCES	50	N	Y	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
DIGITAL MODELS & SIM	--- 1000	0.0	9.5	0.0
FAC SPT TEST OPS	900	Y	Y	Y
IRREP HARM TO FORCES	50	Y	N	Y
FAC SPT TS/SAR WORK	30	Y	N	Y
SPEC FAC SPT TEST OP	20	Y	N	Y
MEASUREMENT FACS	--- 1000	10.0	9.0	10.0
FAC SPT TEST OPS	900	N	Y	N
IRREP HARM TO FORCES	50	N	Y	N
FAC SPT TS/SAR WORK	30	N	Y	N
SPEC FAC SPT TEST OP	20	N	Y	N
INTEGRATION LABS	--- 1000	0.0	10.0	0.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	AEDC OK	AFFTC OK	AFDTC OK
HITL	--- 1000	0.0	0.0	0.0
SPT FIGHTER/HELO A/C	450	N	Y	N
SPT B-1B/CARGO A/C	450	N	Y	N
IRREP HARM TO FORCES	50	N	Y	N
FAC SPT TS/SAR WORK	30	N	Y	N
SPEC FAC SPT TEST OP	20	N	Y	N
ISTF	--- 1000	0.0	10.0	0.0
TEST FIXED WING	70	N	Y	N
TEST ROTARY WING	70	N	Y	N
TEST UNMANNED	70	N	Y	N
CRUISE MISSILE	70	N	Y	N
SIM MSNS W/TELEMETRY	220	0.0000	12.0000	0.0000
CONCRETE RUNWAY	100	0.0000	14995.0000	0.0000
RAMP AREA AVAIL	100	0.0000	15205025.0000	0.0000
HANGAR SPACE	100	0.0000	1536429.0000	0.0000
GRND FACS TO REHEARS	100	N	Y	N
IRREP HARM TO FORCES	50	N	Y	N
FAC SPT TS/SAR WORK	30	N	Y	N
SPEC FAC SPT TEST OP	20	N	Y	N
OPEN AIR RANGES	--- 1000	0.0	9.6	0.0
	===			
SCORE	11000	3.6	8.6	4.9
RANK		13	1	4

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT		UTTR OK	HOLLOMAN OK	476 WEG OK
AVAIL TEST LAND SPAC	150		0.5699	0.2055	0.0045
AVAIL TEST SEA SPACE	150		0.0048	0.0000	0.6858
LAND RESTRICT NONE		0	N	N	N
LAND RESTRICT SOME	20		Y	Y	Y
LAND RESTRICT ALL	50		N	Y	Y
SIZE RESTR AIR SPACE	150		0.3672	0.2055	0.6872
MAX TO MIN ALT RESTR	70		58000.0000	100000.0000	100000.0000
AIR AVAIL OVER LAND	75		0.6161	0.2055	0.0045
AIR AVAIL OVER SEA	75		0.0049	0.0000	0.6858
MAX LINE SEG AIRSPAC	25		0.3275	0.2353	0.5219
SUPERSONIC CORRIDORS	70		Y	N	Y
MIN TO MAX ALT SUPER	70		99250.0000	0.0000	90000.0000
MAX LINE SEG SUPERSO	25		0.3447	0.0000	0.8907
MIN ALT RESTRICT AIR	70		0.0000	0.0000	0.0000
CRIT AIR/LAND/SEA SP	---	1000	4.7	2.9	6.4
MOUNTAINS	140		Y	Y	N
FOREST/JUNGLE	140		Y	N	N
CULTIVATED LOWLAND	140		N	N	N
SWAMP/RIVERINE	140		N	N	N
DESERT	140		Y	Y	N
SEA	300		N	N	Y
TOPOGRAPHICAL	---	1000	4.2	2.8	3.0
AVG %DAYS VIS > 3 MI	600		95.9000	100.0000	95.9000
AVG % NOT CANCEL WEA	400		94.4000	98.2000	92.6000
CLIMATIC	---	1000	9.5	9.9	9.5
AVG % NOT CANCEL C/P	350		100.0000	100.0000	100.0000
% MSNS NOT CANC ENCR	350		100.0000	100.0000	100.0000
POP IN 50 MILE RADII	120		5000.0000	40000.0000	181000.0000
POP IN 100 MILE RADI	90		1140179.0000	690000.0000	937200.0000
POP IN 150 MILE RADI	60		2000000.0000	740000.0000	2067700.0000

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	UTTR	HOLLOMAN	476 WEG
POP IN 200 MILE RADI	30	2200000.0000	1290000.0000	3914100.0000
ENCROACHMENT	--- 1000	9.9	9.9	9.8
FAC LIMIT BY ENVIRON	500	N	N	N
FAC LIMIT BY ENVIRON	500	N	N	N
ENVIRONMENTAL	--- 1000	10.0	10.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
DIGITAL MODELS & SIM	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	N	Y	N
IRREP HARM TO FORCES	50	N	Y	N
FAC SPT TS/SAR WORK	30	N	Y	N
SPEC FAC SPT TEST OP	20	N	Y	N
MEASUREMENT FACS	--- 1000	0.0	10.0	0.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
INTEGRATION LABS	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	N	N	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	UTTR OK	HOLLOMAN OK	476 WEG OK
HITL	--- 1000	0.0	0.0	10.0
SPT FIGHTER/HELO A/C	450	N	N	N
SPT B-1B/CARGO A/C	450	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
ISTF	--- 1000	0.0	0.0	0.0
TEST FIXED WING	70	Y	N	N
TEST ROTARY WING	70	N	N	N
TEST UNMANNED	70	Y	N	N
CRUISE MISSILE	70	Y	N	N
SIM MSNS W/TELEMETRY	220	3.0000	0.0000	0.0000
CONCRETE RUNWAY	100	13500.0000	0.0000	0.0000
RAMP AREA AVAIL	100	7788197.0000	0.0000	0.0000
HANGAR SPACE	100	744650.0000	0.0000	0.0000
GRND FACS TO REHEARS	100	Y	N	N
IRREP HARM TO FORCES	50	Y	N	N
FAC SPT TS/SAR WORK	30	Y	N	N
SPEC FAC SPT TEST OP	20	Y	N	N
OPEN AIR RANGES	--- 1000	6.4	0.0	0.0
	===			
SCORE	11000	4.1	4.1	4.4
RANK		10	10	6

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT		ATTC-FORT RUCKER	ATTC-EDWARDS	EPG
AVAIL TEST LAND SPAC	150		0.9416	0.1690	0.8948
AVAIL TEST SEA SPACE	150		0.0000	0.0000	0.0000
LAND RESTRICT NONE		0	N	N	N
LAND RESTRICT SOME	20		Y	Y	Y
LAND RESTRICT ALL	50		N	N	N
SIZE RESTR AIR SPACE	150		0.0011	0.5606	0.0500
MAX TO MIN ALT RESTR	70		15000.0000	100000.0000	45000.0000
AIR AVAIL OVER LAND	75		0.9416	0.9361	0.1434
AIR AVAIL OVER SEA	75		0.0000	0.0000	0.0000
MAX LINE SEG AIRSPAC	25		0.3565	0.2584	0.0966
SUPERSONIC CORRIDORS	70		N	Y	Y
MIN TO MAX ALT SUPER	70		0.0000	100000.0000	8400.0000
MAX LINE SEG SUPERSO	25		0.0000	0.7541	0.0000
MIN ALT RESTRICT AIR	70		0.0000	0.0000	0.0000
CRIT AIR/LAND/SEA SP	---	1000	3.2	5.1	3.5
MOUNTAINS	140		N	Y	Y
FOREST/JUNGLE	140		Y	Y	Y
CULTIVATED LOWLAND	140		Y	Y	N
SWAMP/RIVERINE	140		Y	N	N
DESERT	140		N	Y	Y
SEA	300		N	N	N
TOPOGRAPHICAL	---	1000	4.2	5.6	4.2
AVG %DAYS VIS > 3 MI	600		88.2000	98.6000	100.0000
AVG % NOT CANCEL WEA	400		95.6000	100.0000	99.7000
CLIMATIC	---	1000	9.1	9.9	10.0
AVG % NOT CANCEL C/P	350		100.0000	100.0000	100.0000
% MSNS NOT CANC ENCR	350		100.0000	100.0000	100.0000
POP IN 50 MILE RADII	120		395214.0000	313000.0000	97624.0000
POP IN 100 MILE RADI	90		1929903.0000	16070000.0000	577500.0000
POP IN 150 MILE RADI	60		3881744.0000	18028120.0000	820734.0000

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	ATTC-FORT RUCKER	ATTC-EDWARDS	EPG
POP IN 200 MILE RADI	30	9062010.0000	20849920.0000	2942835.0000
ENCROACHMENT	--- 1000	9.6	8.3	9.9
FAC LIMIT BY ENVIRON	500	N	N	N
FAC LIMIT BY ENVIRON	500	N	N	N
ENVIRONMENTAL	--- 1000	10.0	10.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
DIGITAL MODELS & SIM	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	N	N	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y
MEASUREMENT FACS	--- 1000	0.0	0.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
INTEGRATION LABS	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	ATTC-FORT RUCKER OK RSJ	ATTC-EDWARDS OK RSJ	EPG OK RSJ
HITL	--- 1000	0.0	0.0	0.0
SPT FIGHTER/HELO A/C	450	N	N	N
SPT B-1B/CARGO A/C	450	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
ISTF	--- 1000	0.0	0.0	0.0
TEST FIXED WING	70	Y	Y	Y
TEST ROTARY WING	70	Y	Y	Y
TEST UNMANNED	70	N	Y	Y
CRUISE MISSILE	70	N	N	N
SIM MSNS W/TELEMETRY	220	2.0000	4.0000	3.0000
CONCRETE RUNWAY	100	5000.0000	14995.0000	12001.0000
RAMP AREA AVAIL	100	150000.0000	213444.0000	460000.0000
HANGAR SPACE	100	79835.0000	72640.0000	30000.0000
GRND FACS TO REHEARS	100	Y	Y	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	Y	Y
SPEC FAC SPT TEST OP	20	Y	N	Y
OPEN AIR RANGES	--- 1000	3.3	5.1	5.4
	===			
SCORE	11000	3.6	4.0	4.8
RANK		13	12	5

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT		USA YPG	NAWCWPNS-POINT MUGU	NAWC-CHINA LAKE
AVAIL TEST LAND SPAC	150		0.0726	0.0125	0.0943
AVAIL TEST SEA SPACE	150		0.0000	0.9992	0.0000
LAND RESTRICT NONE		0	N	N	N
LAND RESTRICT SOME	20		Y	Y	Y
LAND RESTRICT ALL	50		N	Y	N
SIZE RESTR AIR SPACE	150		0.1036	0.9973	0.6731
MAX TO MIN ALT RESTR	70		100000.0000	100000.0000	100000.0000
AIR AVAIL OVER LAND	75		0.1036	0.0129	0.7492
AIR AVAIL OVER SEA	75		0.0000	0.9992	0.0000
MAX LINE SEG AIRSPAC	25		0.1018	0.6165	0.5182
SUPERSONIC CORRIDORS	70		N	Y	Y
MIN TO MAX ALT SUPER	70		0.0000	100000.0000	99500.0000
MAX LINE SEG SUPERSO	25		0.0000	0.8218	0.7541
MIN ALT RESTRICT AIR	70		0.0000	0.0000	0.0000
CRIT AIR/LAND/SEA SP	---	1000	2.0	7.6	5.0
MOUNTAINS	140		Y	Y	Y
FOREST/JUNGLE	140		N	Y	Y
CULTIVATED LOWLAND	140		N	Y	N
SWAMP/RIVERINE	140		N	Y	N
DESERT	140		Y	Y	Y
SEA	300		N	Y	N
TOPOGRAPHICAL	---	1000	2.8	10.0	4.2
AVG %DAYS VIS > 3 MI	600		98.6000	88.5000	98.4000
AVG % NOT CANCEL WEA	400		98.0000	99.8000	100.0000
CLIMATIC	---	1000	9.9	9.3	9.9
AVG % NOT CANCEL C/P	350		100.0000	100.0000	100.0000
% MSNS NOT CANC ENCR	350		100.0000	99.5000	100.0000
POP IN 50 MILE RADII	120		200000.0000	5350000.0000	77000.0000
POP IN 100 MILE RADI	90		350000.0000	13500000.0000	1493000.0000
POP IN 150 MILE RADI	60		500000.0000	17500000.0000	18426000.0000

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	USA YPG OK REF	NAWCWPNS-POINT MUGU OK REF	NAWC-CHINA LAKE OK REF
POP IN 200 MILE RADI	30	4500000.0000	20000000.0000	19423000.0000
ENCROACHMENT	--- 1000	9.9	7.3	9.2
FAC LIMIT BY ENVIRON	500	N	N	N
FAC LIMIT BY ENVIRON	500	N	N	N
ENVIRONMENTAL	--- 1000	10.0	10.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
DIGITAL MODELS & SIM	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	Y	Y	Y
IRREP HARM TO FORCES	50	Y	N	Y
FAC SPT TS/SAR WORK	30	Y	N	Y
SPEC FAC SPT TEST OP	20	Y	N	Y
MEASUREMENT FACS	--- 1000	10.0	9.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
INTEGRATION LABS	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	USA YPG	NAWCWPNS-POINT MUGU	NAWC-CHINA LAKE
HITL	--- 1000	0.0	0.0	0.0
SPT FIGHTER/HELO A/C	450	N	N	N
SPT B-1B/CARGO A/C	450	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
ISTF	--- 1000	0.0	0.0	0.0
TEST FIXED WING	70	N	Y	N
TEST ROTARY WING	70	Y	Y	N
TEST UNMANNED	70	Y	Y	N
CRUISE MISSILE	70	N	Y	N
SIM MSNS W/TELEMETRY	220	3.0000	15.0000	0.0000
CONCRETE RUNWAY	100	6000.0000	11000.0000	0.0000
RAMP AREA AVAIL	100	359000.0000	4798900.0000	0.0000
HANGAR SPACE	100	79560.0000	353598.0000	0.0000
GRND FACS TO REHEARS	100	Y	Y	N
IRREP HARM TO FORCES	50	Y	Y	N
FAC SPT TS/SAR WORK	30	Y	Y	N
SPEC FAC SPT TEST OP	20	Y	Y	N
OPEN AIR RANGES	--- 1000	4.3	8.3	0.0
	===			
SCORE	11000	4.4	5.6	4.4
RANK		6	3	6

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	NSWC-DAHLGREN	NAWCAD-INDIANAPOLIS	NAWCAD-PATUXENT
AVAIL TEST LAND SPAC	150	0.0002	0.0000	0.1319
AVAIL TEST SEA SPACE	150	0.0000	0.0000	0.9805
LAND RESTRICT NONE	0	N	N	N
LAND RESTRICT SOME	20	Y	N	Y
LAND RESTRICT ALL	50	Y	N	N
SIZE RESTR AIR SPACE	150	0.0039	0.0000	0.9820
MAX TO MIN ALT RESTR	70	60000.0000	0.0000	100000.0000
AIR AVAIL OVER LAND	75	0.0002	0.0000	0.1319
AIR AVAIL OVER SEA	75	0.0037	0.0000	0.9805
MAX LINE SEG AIRSPAC	25	0.0302	0.0000	0.3807
SUPERSONIC CORRIDORS	70	N	N	Y
MIN TO MAX ALT SUPER	70	0.0000	0.0000	100000.0000
MAX LINE SEG SUPERSO	25	0.0000	0.0000	0.7625
MIN ALT RESTRICT AIR	70	0.0000	1.0000	0.0000
CRIT AIR/LAND/SEA SP	--- 1000	1.8	0.0	7.3
MOUNTAINS	140	N	N	Y
FOREST/JUNGLE	140	N	N	Y
CULTIVATED LOWLAND	140	N	N	Y
SWAMP/RIVERINE	140	Y	N	Y
DESERT	140	N	N	N
SEA	300	N	N	Y
TOPOGRAPHICAL	--- 1000	1.4	0.0	8.6
AVG %DAYS VIS > 3 MI	600	53.7000	100.0000	93.4000
AVG % NOT CANCEL WEA	400	100.0000	100.0000	93.5000
CLIMATIC	--- 1000	7.2	10.0	9.3
AVG % NOT CANCEL C/P	350	100.0000	100.0000	100.0000
% MSNS NOT CANC ENCR	350	100.0000	100.0000	100.0000
POP IN 50 MILE RADII	120	3912221.0000	1789736.0000	1132793.0000
POP IN 100 MILE RADI	90	9027165.0000	4385199.0000	9048269.0000
POP IN 150 MILE RADI	60	10321145.0000	11521607.0000	17660920.0000

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	NSWC-DAHLGREN	NAWCAD-INDIANAPOLIS	NAWCAD-PATUXENT
POP IN 200 MILE RADI	30	14767442.0000	18230276.0000	24209468.0000
ENCROACHMENT	--- 1000	8.2	8.8	8.5
FAC LIMIT BY ENVIRON	500	N	N	N
FAC LIMIT BY ENVIRON	500	N	N	N
ENVIRONMENTAL	--- 1000	10.0	10.0	10.0
FAC SPT TEST OPS	900	N	N	N
IRREP HARM TO FORCES	50	N	N	N
FAC SPT TS/SAR WORK	30	N	N	N
SPEC FAC SPT TEST OP	20	N	N	N
DIGITAL MODELS & SIM	--- 1000	0.0	0.0	0.0
FAC SPT TEST OPS	900	Y	Y	Y
IRREP HARM TO FORCES	50	Y	Y	Y
FAC SPT TS/SAR WORK	30	Y	N	Y
SPEC FAC SPT TEST OP	20	Y	N	Y
MEASUREMENT FACS	--- 1000	10.0	9.5	10.0
FAC SPT TEST OPS	900	N	Y	Y
IRREP HARM TO FORCES	50	N	Y	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y
INTEGRATION LABS	--- 1000	0.0	9.5	10.0
FAC SPT TEST OPS	900	N	N	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	NSWC-DAHLGREN	NAWCAD-INDIANAPOLIS	NAWCAD-PATUXENT
HITL	--- 1000	0.0	0.0	10.0
SPT FIGHTER/HELO A/C	450	N	N	Y
SPT B-1B/CARGO A/C	450	N	N	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y
ISTF	--- 1000	0.0	0.0	10.0
TEST FIXED WING	70	N	N	Y
TEST ROTARY WING	70	N	N	Y
TEST UNMANNED	70	N	N	Y
CRUISE MISSILE	70	N	N	Y
SIM MSNS W/TELEMETRY	220	0.0000	0.0000	12.0000
CONCRETE RUNWAY	100	0.0000	0.0000	11800.0000
RAMP AREA AVAIL	100	0.0000	0.0000	4646802.0000
HANGAR SPACE	100	0.0000	0.0000	745968.0000
GRND FACS TO REHEARS	100	N	N	Y
IRREP HARM TO FORCES	50	N	N	Y
FAC SPT TS/SAR WORK	30	N	N	Y
SPEC FAC SPT TEST OP	20	N	N	Y
OPEN AIR RANGES	--- 1000	0.0	0.0	8.1
	===			
SCORE	11000	3.5	4.3	8.3
RANK		15	9	2

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT	NAWCADWAR	RATING SCALE
AVAIL TEST LAND SPAC	150	0.0000	0-THRESHOLD
AVAIL TEST SEA SPACE	150	0.0000	0-THRESHOLD
LAND RESTRICT NONE	0	N	YES BEST
LAND RESTRICT SOME	20	N	YES BEST
LAND RESTRICT ALL	50	N	YES BEST
SIZE RESTR AIR SPACE	150	0.0000	0-THRESHOLD
MAX TO MIN ALT RESTR	70	0.0000	HIGH # BEST,0-M
AIR AVAIL OVER LAND	75	0.0000	0-THRESHOLD
AIR AVAIL OVER SEA	75	0.0000	0-THRESHOLD
MAX LINE SEG AIRSPAC	25	0.0000	0-THRESHOLD
SUPERSONIC CORRIDORS	70	N	YES BEST
MIN TO MAX ALT SUPER	70	0.0000	HIGH # BEST,0-M
MAX LINE SEG SUPERSO	25	0.0000	0-THRESHOLD
MIN ALT RESTRICT AIR	70	1.0000	LOW # BEST,
CRIT AIR/LAND/SEA SP	--- 1000	0.0	GROUP SUBTOTAL
MOUNTAINS	140	N	YES BEST
FOREST/JUNGLE	140	N	YES BEST
CULTIVATED LOWLAND	140	N	YES BEST
SWAMP/RIVERINE	140	N	YES BEST
DESERT	140	N	YES BEST
SEA	300	N	YES BEST
TOPOGRAPHICAL	--- 1000	0.0	GROUP SUBTOTAL
AVG %DAYS VIS > 3 MI	600	100.0000	HIGH # BEST, %
AVG % NOT CANCEL WEA	400	100.0000	HIGH # BEST, %
CLIMATIC	--- 1000	10.0	GROUP SUBTOTAL
AVG % NOT CANCEL C/P	350	100.0000	HIGH # BEST, %
% MSNS NOT CANC ENCR	350	100.0000	HIGH # BEST, %
POP IN 50 MILE RADII	120	2000000.0000	LOW # BEST,M-0
POP IN 100 MILE RADI	90	12000000.0000	LOW # BEST,M-0
POP IN 150 MILE RADI	60	20000000.0000	LOW # BEST,M-0

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

	WEIGHT		NAWCADWAR		RATING SCALE
POP IN 200 MILE RADI	30		30000000.0000	LOW #	BEST,M-0
ENCROACHMENT	---	1000	8.0	GROUP	SUBTOTAL
FAC LIMIT BY ENVIRON	500		N		NO BEST
FAC LIMIT BY ENVIRON	500		N		NO BEST
ENVIRONMENTAL	---	1000	10.0	GROUP	SUBTOTAL
FAC SPT TEST OPS	900		Y		YES BEST
IRREP HARM TO FORCES	50		Y		YES BEST
FAC SPT TS/SAR WORK	30		N		YES BEST
SPEC FAC SPT TEST OP	20		N		YES BEST
DIGITAL MODELS & SIM	---	1000	9.5	GROUP	SUBTOTAL
FAC SPT TEST OPS	900		N		YES BEST
IRREP HARM TO FORCES	50		N		YES BEST
FAC SPT TS/SAR WORK	30		N		YES BEST
SPEC FAC SPT TEST OP	20		N		YES BEST
MEASUREMENT FACS	---	1000	0.0	GROUP	SUBTOTAL
FAC SPT TEST OPS	900		N		YES BEST
IRREP HARM TO FORCES	50		N		YES BEST
FAC SPT TS/SAR WORK	30		N		YES BEST
SPEC FAC SPT TEST OP	20		N		YES BEST
INTEGRATION LABS	---	1000	0.0	GROUP	SUBTOTAL
FAC SPT TEST OPS	900		N		YES BEST
IRREP HARM TO FORCES	50		N		YES BEST
FAC SPT TS/SAR WORK	30		N		YES BEST
SPEC FAC SPT TEST OP	20		N		YES BEST

	WEIGHT	NAV WAR	RATING SCALE
HITL	--- 1000	0.0	GROUP SUBTOTAL
SPT FIGHTER/HELO A/C	450	N	YES BEST
SPT B-1B/CARGO A/C	450	N	YES BEST
IRREP HARM TO FORCES	50	N	YES BEST
FAC SPT TS/SAR WORK	30	N	YES BEST
SPEC FAC SPT TEST OP	20	N	YES BEST
ISTF	--- 1000	0.0	GROUP SUBTOTAL
TEST FIXED WING	70	N	YES BEST
TEST ROTARY WING	70	N	YES BEST
TEST UNMANNED	70	N	YES BEST
CRUISE MISSILE	70	N	YES BEST
SIM MSNS W/TELEMETRY	220	0.0000	HIGH # BEST,0-M
CONCRETE RUNWAY	100	0.0000	HIGH # BEST,0-M
RAMP AREA AVAIL	100	0.0000	HIGH # BEST,0-M
HANGAR SPACE	100	0.0000	HIGH # BEST,0-M
GRND FACS TO REHEARS	100	N	YES BEST
IRREP HARM TO FORCES	50	N	YES BEST
FAC SPT TS/SAR WORK	30	N	YES BEST
SPEC FAC SPT TEST OP	20	N	YES BEST
OPEN AIR RANGES	--- 1000	0.0	GROUP SUBTOTAL
	===		
SCORE	11000	3.4	
RANK		16	

computation.

AIR AVAIL OVER SEA: Criterion: 0-THRESHOLD (0 Scores 0 Points, Maximum Value Scores 10 Points)

The data value for each alternative was computed manually using 0-threshold scoring scale (i.e. "data value" * (1-e-2.3 * data value / "threshold value")). Use of the 0-10 scale ensures the data value is used as the weighted average in the role-up FV computation.

MAX LINE SEG AIRSPAC: Criterion: 0-THRESHOLD (0 Scores 0 Points, Maximum Value Scores 10 Points)

The data value for each alternative was computed manually using 0-threshold scoring scale (i.e. "data value" * (1-e-2.3 * data value / "threshold value")). Use of the 0-10 scale ensures the data value is used as the weighted average in the role-up FV computation.

MAX LINE SEG SUPERSO: Criterion: 0-THRESHOLD (0 Scores 0 Points, Maximum Value Scores 10 Points)

The data value for each alternative was completed manually using 0-threshold scoring scales (i.e. "data value" * (1-e-2.3 * data value / "threshold value")). Use of the 0-10 scale ensures the data value is used as the weighted average in the role-up FV computation.

FOREST/JUNGLE: Purpose: To measure the cost of future projects involving the installation water supply and waste treatment as well as the design capacity of current systems.

Unit of Measure: Based on D-Pad model (WS-C) which generates a calculated, numeric score.

Criterion: High Number Best, 0-Max
(0 Scores 0 Points, Maximum Value Scores 10 Points)

CULTIVATED LOWLAND: Purpose: To measure the overall quality of an installation's facilities.

Unit of Measure: Based on percent of permanent building square footage to total facilities square footage.

Criterion: % PERMANENT
(0 Scores 0 Points, Maximum Value Scores 10 Points)

SWAMP/RIVERINE: Purpose: To measure environmental constraints upon mission activity.

Unit of Measure: Based on composite rating based on the following: Endangered fauna, endangered flora, archaeological site, historical buildings. D-Pad model (ENVIR-C) score.

Criterion: High Number Best, 0-Max
(0 Scores 0 Points, Maximum Value Scores 10 Points)

NOTES FOR DATA ITEMS: none

CRITERION RATING SCALE DEFINITIONS:

0-THRESHOLD: Scores 1.0000 high, 0.0000 low

YES BEST: Y = 10.0, N = 0.0

HIGH # BEST,0-M: Scores MAXIMUM high, 0.0000 low

LOW # BEST,: Scores 0.0000 high, MAXIMUM low

HIGH # BEST, %: Scores MAXIMUM high, 0.0000 low

LOW # BEST,M-0: Scores 0.0000 high, MAXIMUM low

NO BEST: N = 10.0, Y = 0.0

T&E JCSG SUB-MODEL FOR AIR VEH QUESTIONS

RANK	SCORE	ALTERNATIVE
1	8.6	AFFTC
2	8.3	NAWCAD-PATUXENT
3	5.6	NAWCWPNS-POINT MUGU
4	4.9	AFDTC
5	4.8	EPG
6	4.4	476 WEG
6	4.4	NAWC-CHINA LAKE
6	4.4	USA YPG
9	4.3	NAWCAD-INDIANAPOLIS
10	4.1	HOLLOMAN
10	4.1	UTTR
12	4.0	ATTC-EDWARDS
13	3.6	ATTC-FORT RUCKER
13	3.6	AEDC
15	3.5	NSWC-DAHLGREN
16	3.4	NAWCADWAR

Document Separator

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A1 AEDC
		PHYSICAL FACTORS				
1.1		**CRITICAL AIR/LAND/SEA SPACE**				
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	19	0.001091903
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		N
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		0
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		1
				[all/some match]	0	
1.2		**TOPOGRAPHY**		[bit check subword]	0	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	0	

Robert E. Lee Jr. 10/7/94 1915 REL 10/7/94 6:00 PM

1935 10/7/94 18:09 10-7-94 Gary L. Holloway 10/7/94 1912 DRJ

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A1 AEDC
				ID =>		A1
				LABEL =>	EXP INP	AEDC
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		70,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		790,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		955,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		2,405,000
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A1 AEDC
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		**OPEN AIR RANGE**				
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A1
NUMBER	ID	LABEL		LABEL =>	EXP INP	AEDC
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			8,440,802.000	
		COLUMN Y/N WORD: PHYS VALUE			0	
		COLUMN Y/N WORD: TECH VALUE			240	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A2 AFFTC
				ID =>		A2
				LABEL =>	EXP INP	AFFTC
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	12,225	0.504871275
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	41,268	0.906790907
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	69,578	0.981697818
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	49,774	0.942845949
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	41,333	0.907138626
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	315	0.453242554
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		100,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	315	0.836550303
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2	**TOPOGRAPHY**			[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		Y
				[bit check subword]	1008	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A2 AFFTC
				ENTRY (UNITS)		
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		95.6
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		313,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		16,070,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		18,028,120
1.4.3d	C28	POP IN 200 MILE RADI		no. people		20,489,920
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		Y
2.1.2	C32	IRREP HARM TO FORCES		N/Y		Y
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	3	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A2 AFFTC
				ENTRY (UNITS)		
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	16	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		Y
2.3.2	C40	IRREP HARM TO FORCES		N/Y		Y
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		Y
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		Y
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		Y
2.5.3	C49	IRREP HARM TO FORCES		N/Y		Y
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		Y
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	31	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A2
NUMBER	ID	LABEL		LABEL =>	EXP INP	AFFTC
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		Y
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		12
2.6.3	C57	CONCRETE RUNWAY		feet		14,995
2.6.4	C58	RAMP AREA AVAIL		square feet		15,205,025
2.6.5	C59	HANGAR SPACE		square feet		1,536,429
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123360	
		COLUMN NO. SUM: PHYS/TECH VALUE			**143715802.3**	
		COLUMN Y/N WORD: PHYS VALUE			**1018**	
		COLUMN Y/N WORD: TECH VALUE			**123650**	

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A3
NUMBER	ID	LABEL		LABEL =>	EXP INP	AFDTC
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
PHYSICAL FACTORS						
1.1	CRITICAL AIR/LAND/SEA SPACE					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	874	0.049013108
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	91,998	0.99495766
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	33,763	0.856493149
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	9,736	0.428688109
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	92,137	0.9949978
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	478	0.599950371
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		100,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	478	0.935976175
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2	TOPOGRAPHY			[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		Y
				[bit check subword]	736	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A3 AFDTC
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		98.1
1.3.2	C22	AVG % NOT CANCEL WEA		%		92.3
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		253,144
1.4.3b	C26	POP IN 150 MILE RADI		no. people		1,205,794
1.4.3c	C27	POP IN 100 MILE RADI		no. people		2,417,482
1.4.3d	C28	POP IN 200 MILE RADI		no. people		4,383,864
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A3 AFDTC
				ENTRY (UNITS)		
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A3 AFDTC
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			16921357.43	
		COLUMN Y/N WORD: PHYS VALUE			746	
		COLUMN Y/N WORD: TECH VALUE			240	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A4 UTTR
				ID =>		A4
				LABEL =>	EXP INP	UTTR
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	14,675	0.569932239
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	84	0.004818354
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	7,958	0.367189962
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		58,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	16,651	0.616122773
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	86	0.004932794
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	207	0.32749787
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		99,250
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	74	0.344675666
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2		**TOPOGRAPHY**		[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	304	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A4 UTTR
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		95.9
1.3.2	C22	AVG % NOT CANCEL WEA		%		94.4
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		5,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		1,140,179
1.4.3c	C27	POP IN 100 MILE RADI		no. people		2,000,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		2,200,000
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A4 UTTR
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A4 UTTR
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		Y
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		3
2.6.3	C57	CONCRETE RUNWAY		feet		13,500
2.6.4	C58	RAMP AREA AVAIL		square feet		7,788,197
2.6.5	C59	HANGAR SPACE		square feet		744,650
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123296	
		COLUMN NO. SUM: PHYS/TECH VALUE			**28098341.93**	
		COLUMN Y/N WORD: PHYS VALUE			**314**	
		COLUMN Y/N WORD: TECH VALUE			**123296**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A5 HOLLOMAN
				ID =>		A5
				LABEL =>	EXP INP	HOLLOMAN
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	4,000	0.205466397
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		Y
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	4,000	0.205466397
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	4,000	0.205466397
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	140	0.235347146
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	1	
1.2	**TOPOGRAPHY**			[bit check subword]	6	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	272	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A5 HOLLOMAN
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		98.2
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		40,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		690,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		740,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		1,290,000
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A5 HOLLOMAN
				ID =>		A5
				LABEL =>	EXP INP	HOLLOMAN
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		**OPEN AIR RANGE**				
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A5 HOLLOMAN
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**5720797.693**	
		COLUMN Y/N WORD: PHYS VALUE			**278**	
		COLUMN Y/N WORD: TECH VALUE			**240**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A6 476 WEG
				ID =>		A6
				LABEL =>	EXP INP	476 WEG
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	78	0.004480682
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	20,133	0.685775475
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		Y
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	20,211	0.687181616
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	78	0.004480682
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	20,133	0.685775475
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	385	0.521891061
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		90,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	385	0.890709959
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	1	
1.2	**TOPOGRAPHY**			[bit check subword]	14	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		Y
				[bit check subword]	512	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A6 476 WEG
				ID =>		A6
				LABEL =>	EXP INP	476 WEG
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		95.9
1.3.2	C22	AVG % NOT CANCEL WEA		%		92.6
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		181,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		937,200
1.4.3c	C27	POP IN 100 MILE RADI		no. people		2,067,700
1.4.3d	C28	POP IN 200 MILE RADI		no. people		3,914,100
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		N

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A6
NUMBER	ID	LABEL		LABEL =>	EXP INP	476 WEG
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		Y
2.4.2	C44	IRREP HARM TO FORCES		N/Y		Y
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		Y
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	3840	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		**OPEN AIR RANGE**				
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A6 / 476 WEG
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**14580783.27**	
		COLUMN Y/N WORD: PHYS VALUE			**526**	
		COLUMN Y/N WORD: TECH VALUE			**3840**	

Document Separator

		D-PAD INPUT DATA FORM FOR T&E				
		AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS				
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A7
NUMBER	ID	LABEL		LABEL =>	EXP INP	ATTC-FORT RUCKER
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
PHYSICAL FACTORS						
1.1	CRITICAL AIR/LAND/SEA SPACE					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	49,390	0.941569952
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	20	0.001149339
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		15,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	49,390	0.941569952
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	230	0.356500052
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2	TOPOGRAPHY			[bit check subword]	2	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	224	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A7 ATTC-FORT RUCKER
				ENTRY (UNITS)		
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		88.2
1.3.2	C22	AVG % NOT CANCEL WEA		%		95.6
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		395,214
1.4.3b	C26	POP IN 150 MILE RADI		no. people		1,929,903
1.4.3c	C27	POP IN 100 MILE RADI		no. people		3,881,744
1.4.3d	C28	POP IN 200 MILE RADI		no. people		9,062,010
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A7 ATTC-FORT RUCKER
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		**OPEN AIR RANGE**				
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A7
NUMBER	ID	LABEL		LABEL =>	EXP INP	ATTC-FORT RUCKER
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		2
2.6.3	C57	CONCRETE RUNWAY		feet		5,000
2.6.4	C58	RAMP AREA AVAIL		square feet		150,000
2.6.5	C59	HANGAR SPACE		square feet		79,835
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	73824	
		COLUMN NO. SUM: PHYS/TECH VALUE			31038186.2	
		COLUMN Y/N WORD: PHYS VALUE			226	
		COLUMN Y/N WORD: TECH VALUE			73824	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A8 ATTC-EDWARDS
				ID =>		A8
				LABEL =>	EXP INP	ATTC-EDWARDS
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	3,220	0.169020372
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	14,300	0.560558203
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	47,847	0.936148966
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	156	0.258440591
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		100,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	244	0.754141718
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2	**TOPOGRAPHY**			[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	368	

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A8
NUMBER	ID	LABEL		LABEL =>	EXP INP	ATTC-EDWARDS
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
1.3		CLIMATE				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		98.6
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		ENCROACHMENT				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		313,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		16,070,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		18,028,120
1.4.3d	C28	POP IN 200 MILE RADI		no. people		20,849,920
1.5		ENVIRONMENT				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		DIGITAL MODELS & SIMULATION				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		MEASUREMENT FACILITY				
2.2.1	C35	FAC SPT TEST OPS		N/Y		N

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				**COLUMN:**		
QUESTION	**ROW:**			**ID =>**		**A8**
NUMBER	**ID**	**LABEL**		**LABEL =>**	EXP INP	**ATTC-EDWARDS**
			EXPONENTIAL			
			THRESHOLD	**ENTRY (UNITS)**		
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

		D-PAD INPUT DATA FORM FOR T&E				
		AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS				
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A8
NUMBER	ID	LABEL		LABEL =>	EXP INP	ATTC-EDWARDS
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		4
2.6.3	C57	CONCRETE RUNWAY		feet		14,995
2.6.4	C58	RAMP AREA AVAIL		square feet		213,444
2.6.5	C59	HANGAR SPACE		square feet		72,640
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	41184	
		COLUMN NO. SUM: PHYS/TECH VALUE			111525048.2	
		COLUMN Y/N WORD: PHYS VALUE			378	
		COLUMN Y/N WORD: TECH VALUE			41184	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A9 EPG
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	39,167	0.894822145
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	892	0.04999687
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		45,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	2,692	0.143404956
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	53	0.096594108
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		8,400
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
1.2	**TOPOGRAPHY**			[all/some match]	0	
				[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	304	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A9 EPG
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		99.7
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		97,624
1.4.3b	C26	POP IN 150 MILE RADI		no. people		577,500
1.4.3c	C27	POP IN 100 MILE RADI		no. people		820,734
1.4.3d	C28	POP IN 200 MILE RADI		no. people		2,942,835
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A9 EPG
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A9 / EPG
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		3
2.6.3	C57	CONCRETE RUNWAY		feet		12,001
2.6.4	C58	RAMP AREA AVAIL		square feet		460,000
2.6.5	C59	HANGAR SPACE		square feet		30,000
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123104	
		COLUMN NO. SUM: PHYS/TECH VALUE			**9988993.98**	
		COLUMN Y/N WORD: PHYS VALUE			**314**	
		COLUMN Y/N WORD: TECH VALUE			**123344**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A10 USA YPG
				ID =>		A10
				LABEL =>	EXP INP	USA YPG
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	1,310	0.072557981
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	1,903	0.103648371
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	1,903	0.103648371
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	56	0.101773786
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
1.2	**TOPOGRAPHY**			[all/some match]	0	
1.2.1a	C15	MOUNTAINS		[bit check subword]	2	
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		Y
				N/Y		N
				[bit check subword]	272	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A10 USA YPG
				ID =>		A10
				LABEL =>	EXP INP	USA YPG
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		98.6
1.3.2	C22	AVG % NOT CANCEL WEA		%		98
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		200,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		350,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		500,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		4,500,000
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A10 USA YPG
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A10 USA YPG
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		3
2.6.3	C57	CONCRETE RUNWAY		feet		6,000
2.6.4	C58	RAMP AREA AVAIL		square feet		359,000
2.6.5	C59	HANGAR SPACE		square feet		79,560
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123072	
		COLUMN NO. SUM: PHYS/TECH VALUE			**12189919.82**	
		COLUMN Y/N WORD: PHYS VALUE			**274**	
		COLUMN Y/N WORD: TECH VALUE			**123312**	

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D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A11 NAWCWPNS-POINT MUGU
				ID =>		A11
				LABEL =>	EXP INP	NAWCWPNS-POINT MUGU
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	219	0.012513546
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	125,000	0.999244023
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		Y
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	103,000	0.997321504
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	226	0.01291093
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	125,000	0.999244023
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	500	0.616468427
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		100,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	300	0.821826948
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	1	
1.2	**TOPOGRAPHY**			[bit check subword]	14	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		Y
				[bit check subword]	1008	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A11 NAWCWPNS-POINT MUGU
1.3		CLIMATE				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		88.5
1.3.2	C22	AVG % NOT CANCEL WEA		%		99.8
1.4		ENCROACHMENT				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		99.5
1.4.3a	C25	POP IN 50 MILE RADII		no. people		5,350,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		13,500,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		17,500,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		20,000,000
1.5		ENVIRONMENT				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		DIGITAL MODELS & SIMULATION				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		MEASUREMENT FACILITY				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A11 NAWCWPNS-POINT MUGU
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	16	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A11
NUMBER	ID	LABEL		LABEL =>	EXP INP	NAWCWPNS-POINT MUGU
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		Y
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		15
2.6.3	C57	CONCRETE RUNWAY		feet		11,000
2.6.4	C58	RAMP AREA AVAIL		square feet		4,798,900
2.6.5	C59	HANGAR SPACE		square feet		353,598
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123360	
		COLUMN NO. SUM: PHYS/TECH VALUE			123427809.5	
		COLUMN Y/N WORD: PHYS VALUE			1022	
		COLUMN Y/N WORD: TECH VALUE			123376	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A12 NAWC-CHINA LAKE
				ID =>		A12
				LABEL =>	EXP INP	NAWC-CHINA LAKE
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	1,723	0.094322956
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	19,445	0.673095598
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	24,056	0.749230227
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	381	0.518211472
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		99,500
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	244	0.754141718
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	0	
1.2		**TOPOGRAPHY**		[bit check subword]	10	
1.2.1a	C15	MOUNTAINS		N/Y		Y
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	304	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A12 NAWC-CHINA LAKE
				ENTRY (UNITS)		
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		98.4
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		77,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		1,493,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		18,426,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		19,423,000
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A12 NAWC-CHINA LAKE
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3		INTEGRATION LABORATORY				
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4		HARDWARE-IN-THE-LOOP				
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5		INSTALLED TEST FACILITY				
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		OPEN AIR RANGE				
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A12
NUMBER	ID	LABEL		LABEL =>	EXP INP	NAWC-CHINA LAKE
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			79237802.19	
		COLUMN Y/N WORD: PHYS VALUE			314	
		COLUMN Y/N WORD: TECH VALUE			240	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A13 NSWC-DAHLGREN
				ID =>		A13
				LABEL =>	EXP INP	NSWC-DAHLGREN
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	4	0.000229974
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		Y
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	68	0.003902366
1.1.5	C7	MAX TO MIN ALT RFSTR		feet (upper - lower)		60,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	4	0.000229974
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	64	0.003673237
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	16	0.030201215
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
				[all/some match]	1	
1.2	**TOPOGRAPHY**			[bit check subword]	6	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	128	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A13 NSWC-DAHLGREN
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		53.7
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		3,912,221
1.4.3b	C26	POP IN 150 MILE RADI		no. people		9,027,165
1.4.3c	C27	POP IN 100 MILE RADI		no. people		10,321,145
1.4.3d	C28	POP IN 200 MILE RADI		no. people		14,767,442
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A13 NSWC-DAHLGREN
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

		D-PAD INPUT DATA FORM FOR T&E				
		AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS				
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A13
NUMBER	ID	LABEL		LABEL =>	EXP INP	NSWC-DAHLGREN
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			76176653.48	
		COLUMN Y/N WORD: PHYS VALUE			134	
		COLUMN Y/N WORD: TECH VALUE			240	

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D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	ENTRY (UNITS)	COLUMN: ID =>		A14
					LABEL =>	EXP INP	NAWCAD-INDIANAPOLIS
PHYSICAL FACTORS							
1.1	**CRITICAL AIR/LAND/SEA SPACE**						
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles		0	0
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles		0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y			N
1.1.3b	C4	LAND RESTRICT SOME		N/Y			N
1.1.3c	C5	LAND RESTRICT ALL		N/Y			N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles		0	0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)			0
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles		0	0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles		0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi		0	0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y			N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)			0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi		0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet			1
				[all/some match]		0	
1.2	**TOPOGRAPHY**			[bit check subword]		0	
1.2.1a	C15	MOUNTAINS		N/Y			N
1.2.1b	C16	FOREST/JUNGLE		N/Y			N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y			N
1.2.1d	C18	SWAMP/RIVERINE		N/Y			N
1.2.1e	C19	DESERT		N/Y			N
1.2.1f	C20	SEA		N/Y			N
				[bit check subword]		0	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A14 NAWCAD-INDIANAPOLIS
				ID =>		A14
				LABEL =>	EXP INP	NAWCAD-INDIANAPOLIS
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		1,789,736
1.4.3b	C26	POP IN 150 MILE RADI		no. people		4,385,199
1.4.3c	C27	POP IN 100 MILE RADI		no. people		11,521,607
1.4.3d	C28	POP IN 200 MILE RADI		no. people		18,230,277
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

		D-PAD INPUT DATA FORM FOR T&E				
		AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS				
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A14
NUMBER	ID	LABEL		LABEL =>	EXP INP	NAWCAD-INDIANAPOLIS
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	48	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		Y
2.3.2	C40	IRREP HARM TO FORCES		N/Y		Y
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	48	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A14 NAWCAD-INDIANAPOLIS
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**71854440**	
		COLUMN Y/N WORD: PHYS VALUE			**0**	
		COLUMN Y/N WORD: TECH VALUE			**96**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A15 NAWCAD-PATUXENT
				ID =>		A15
				LABEL =>	EXP INP	NAWCAD-PATUXENT
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	2,460	0.131901421
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	68,488	0.980514019
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		Y
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	69,903	0.982036664
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		100,000
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	2,460	0.131901421
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	68,488	0.980514019
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	250	0.38070074
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		Y
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		100,000
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	250	0.762479181
1.1.12	C14	MIN ALT RESTRICT AIR		feet		0
1.2	**TOPOGRAPHY**			[all/some match]	0	
1.2.1a	C15	MOUNTAINS		[bit check subword]	10	
1.2.1b	C16	FOREST/JUNGLE		N/Y		Y
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		Y
1.2.1d	C18	SWAMP/RIVERINE		N/Y		Y
1.2.1e	C19	DESERT		N/Y		Y
1.2.1f	C20	SEA		N/Y		N
				N/Y		Y
				[bit check subword]	752	

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A15
NUMBER	ID	LABEL		LABEL =>	EXP INP	NAWCAD-PATUXENT
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
1.3		CLIMATE				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		93.4
1.3.2	C22	AVG % NOT CANCEL WEA		%		93.5
1.4		ENCROACHMENT				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		1,132,793
1.4.3b	C26	POP IN 150 MILE RADI		no. people		9,048,269
1.4.3c	C27	POP IN 100 MILE RADI		no. people		17,660,919
1.4.3d	C28	POP IN 200 MILE RADI		no. people		24,209,467
1.5		ENVIRONMENT				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		DIGITAL MODELS & SIMULATION				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		N
2.1.2	C32	IRREP HARM TO FORCES		N/Y		N
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.2		MEASUREMENT FACILITY				
2.2.1	C35	FAC SPT TEST OPS		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A15 NAWCAD-PATUXENT
2.2.2	C36	IRREP HARM TO FORCES		N/Y		Y
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		Y
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		Y
2.3.2	C40	IRREP HARM TO FORCES		N/Y		Y
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		Y
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	240	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		Y
2.4.2	C44	IRREP HARM TO FORCES		N/Y		Y
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		Y
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	3840	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		Y
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		Y
2.5.3	C49	IRREP HARM TO FORCES		N/Y		Y
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		Y
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	31	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		Y
2.6.1b	C53	TEST ROTARY WING		N/Y		Y

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				**COLUMN:**		
QUESTION	**ROW:**			**ID =>**		**A15**
NUMBER	**ID**	**LABEL**		**LABEL =>**	EXP INP	**NAWCAD-PATUXENT**
			EXPONENTIAL			
			THRESHOLD	**ENTRY (UNITS)**		
2.6.1c	C54	TEST UNMANNED		N/Y		Y
2.6.1d	C55	CRUISE MISSILE		N/Y		Y
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		12
2.6.3	C57	CONCRETE RUNWAY		feet		11,800
2.6.4	C58	RAMP AREA AVAIL		square feet		4,646,802
2.6.5	C59	HANGAR SPACE		square feet		745,968
2.6.6	C60	GRND FACS TO REHEARS		N/Y		Y
2.6.7	C61	IRREP HARM TO FORCES		N/Y		Y
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		Y
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		Y
				[bit check subword]	123360	
		COLUMN NO. SUM: PHYS/TECH VALUE			**115312841.3**	
		COLUMN Y/N WORD: PHYS VALUE			**762**	
		COLUMN Y/N WORD: TECH VALUE			**127711**	

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A16
NUMBER	ID	LABEL		LABEL =>	EXP INP	NAWCADWAR
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
PHYSICAL FACTORS						
1.1	CRITICAL AIR/LAND/SEA SPACE					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	0	0
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		N
1.1.3b	C4	LAND RESTRICT SOME		N/Y		N
1.1.3c	C5	LAND RESTRICT ALL		N/Y		N
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		0
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		N
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		0
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		1
				[all/some match]	0	
1.2	TOPOGRAPHY			[bit check subword]	0	
1.2.1a	C15	MOUNTAINS		N/Y		N
1.2.1b	C16	FOREST/JUNGLE		N/Y		N
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		N
1.2.1d	C18	SWAMP/RIVERINE		N/Y		N
1.2.1e	C19	DESERT		N/Y		N
1.2.1f	C20	SEA		N/Y		N
				[bit check subword]	0	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A16 NAWCADWAR
1.3		CLIMATE				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		100
1.3.2	C22	AVG % NOT CANCEL WEA		%		100
1.4		ENCROACHMENT				
1.4.1	C23	AVG % NOT CANCEL C/P		%		100
1.4.2	C24	% MSNS NOT CANC ENCR		%		100
1.4.3a	C25	POP IN 50 MILE RADII		no. people		2,000,000
1.4.3b	C26	POP IN 150 MILE RADI		no. people		12,000,000
1.4.3c	C27	POP IN 100 MILE RADI		no. people		20,000,000
1.4.3d	C28	POP IN 200 MILE RADI		no. people		30,000,000
1.5		ENVIRONMENT				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		N
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		N
				[Y/N match]	1	
TECHNICAL FACTORS				[bit check subword]	0	
2.1		DIGITAL MODELS & SIMULATION				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		Y
2.1.2	C32	IRREP HARM TO FORCES		N/Y		Y
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		N
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	3	
2.2		MEASUREMENT FACILITY				
2.2.1	C35	FAC SPT TEST OPS		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A16 NAWCADWAR
2.2.2	C36	IRREP HARM TO FORCES		N/Y		N
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		N
2.3.2	C40	IRREP HARM TO FORCES		N/Y		N
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		N
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		N
2.4.2	C44	IRREP HARM TO FORCES		N/Y		N
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		N
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		N
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		N
2.5.3	C49	IRREP HARM TO FORCES		N/Y		N
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		N
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
2.6		**OPEN AIR RANGE**				
2.6.1a	C52	TEST FIXED WING		N/Y		N
2.6.1b	C53	TEST ROTARY WING		N/Y		N

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A16 NAWCADWAR
2.6.1c	C54	TEST UNMANNED		N/Y		N
2.6.1d	C55	CRUISE MISSILE		N/Y		N
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		0
2.6.3	C57	CONCRETE RUNWAY		feet		0
2.6.4	C58	RAMP AREA AVAIL		square feet		0
2.6.5	C59	HANGAR SPACE		square feet		0
2.6.6	C60	GRND FACS TO REHEARS		N/Y		N
2.6.7	C61	IRREP HARM TO FORCES		N/Y		N
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		N
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		N
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**128000802**	
		COLUMN Y/N WORD: PHYS VALUE			**0**	
		COLUMN Y/N WORD: TECH VALUE			**3**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A17 AV TEST 1
				ID =>		A17
				LABEL =>	EXP INP	AV TEST 1
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles		0
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles		0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		
1.1.3b	C4	LAND RESTRICT SOME		N/Y		
1.1.3c	C5	LAND RESTRICT ALL		N/Y		
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles		0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles		0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles		0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi		0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi		0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		
				[all/some match]	0	
1.2	**TOPOGRAPHY**			[bit check subword]	0	
1.2.1a	C15	MOUNTAINS		N/Y		
1.2.1b	C16	FOREST/JUNGLE		N/Y		
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		
1.2.1d	C18	SWAMP/RIVERINE		N/Y		
1.2.1e	C19	DESERT		N/Y		
1.2.1f	C20	SEA		N/Y		
				[bit check subword]	0	

D-PAD INPUT DATA FORM FOR T&E						
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS						
SCORING				COLUMN:		
QUESTION	ROW:			ID =>		A17
NUMBER	ID	LABEL		LABEL =>	EXP INP	AV TEST 1
			EXPONENTIAL			
			THRESHOLD	ENTRY (UNITS)		
1.3		CLIMATE				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		
1.3.2	C22	AVG % NOT CANCEL WEA		%		
1.4		ENCROACHMENT				
1.4.1	C23	AVG % NOT CANCEL C/P		%		
1.4.2	C24	% MSNS NOT CANC ENCR		%		
1.4.3a	C25	POP IN 50 MILE RADII		no. people		
1.4.3b	C26	POP IN 150 MILE RADI		no. people		
1.4.3c	C27	POP IN 100 MILE RADI		no. people		
1.4.3d	C28	POP IN 200 MILE RADI		no. people		
1.5		ENVIRONMENT				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		
				[Y/N match]		
TECHNICAL FACTORS				[bit check subword]	0	
2.1		DIGITAL MODELS & SIMULATION				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		
2.1.2	C32	IRREP HARM TO FORCES		N/Y		
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.2		MEASUREMENT FACILITY				
2.2.1	C35	FAC SPT TEST OPS		N/Y		

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A17 AV TEST 1
2.2.2	C36	IRREP HARM TO FORCES		N/Y		
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		
2.3.2	C40	IRREP HARM TO FORCES		N/Y		
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		
2.4.2	C44	IRREP HARM TO FORCES		N/Y		
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		
2.5.3	C49	IRREP HARM TO FORCES		N/Y		
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		
2.6.1b	C53	TEST ROTARY WING		N/Y		

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A17 AV TEST 1
				ENTRY (UNITS)		
2.6.1c	C54	TEST UNMANNED		N/Y		
2.6.1d	C55	CRUISE MISSILE		N/Y		
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		
2.6.3	C57	CONCRETE RUNWAY		feet		
2.6.4	C58	RAMP AREA AVAIL		square feet		
2.6.5	C59	HANGAR SPACE		square feet		
2.6.6	C60	GRND FACS TO REHEARS		N/Y		
2.6.7	C61	IRREP HARM TO FORCES		N/Y		
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**0**	
		COLUMN Y/N WORD: PHYS VALUE			**0**	
		COLUMN Y/N WORD: TECH VALUE			**0**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A18 AV TEST 2
				ID =>		A18
				LABEL =>	EXP INP	AV TEST 2
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles		0
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles		0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		
1.1.3b	C4	LAND RESTRICT SOME		N/Y		
1.1.3c	C5	LAND RESTRICT ALL		N/Y		
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles		0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles		0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles		0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi		0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi		0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		
1.2	**TOPOGRAPHY**			[all/some match]	0	
1.2.1a	C15	MOUNTAINS		[bit check subword]	0	
1.2.1b	C16	FOREST/JUNGLE		N/Y		
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		
1.2.1d	C18	SWAMP/RIVERINE		N/Y		
1.2.1e	C19	DESERT		N/Y		
1.2.1f	C20	SEA		N/Y		
				N/Y		
				[bit check subword]	0	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A18 AV TEST 2
				ENTRY (UNITS)		
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		
1.3.2	C22	AVG % NOT CANCEL WEA		%		
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		
1.4.2	C24	% MSNS NOT CANC ENCR		%		
1.4.3a	C25	POP IN 50 MILE RADII		no. people		
1.4.3b	C26	POP IN 150 MILE RADI		no. people		
1.4.3c	C27	POP IN 100 MILE RADI		no. people		
1.4.3d	C28	POP IN 200 MILE RADI		no. people		
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		
				[Y/N match]		
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		
2.1.2	C32	IRREP HARM TO FORCES		N/Y		
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		

D-PAD INPUT DATA FORM FOR T&E

AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A18 AV TEST 2
2.2.2	C36	IRREP HARM TO FORCES		N/Y		
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.3	**INTEGRATION LABORATORY**					
2.3.1	C39	FAC SPT TEST OPS		N/Y		
2.3.2	C40	IRREP HARM TO FORCES		N/Y		
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.4	**HARDWARE-IN-THE-LOOP**					
2.4.1	C43	FAC SPT TEST OPS		N/Y		
2.4.2	C44	IRREP HARM TO FORCES		N/Y		
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.5	**INSTALLED TEST FACILITY**					
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		
2.5.3	C49	IRREP HARM TO FORCES		N/Y		
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.6	**OPEN AIR RANGE**					
2.6.1a	C52	TEST FIXED WING		N/Y		
2.6.1b	C53	TEST ROTARY WING		N/Y		

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A18 AV TEST 2
2.6.1c	C54	TEST UNMANNED		N/Y		
2.6.1d	C55	CRUISE MISSILE		N/Y		
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		
2.6.3	C57	CONCRETE RUNWAY		feet		
2.6.4	C58	RAMP AREA AVAIL		square feet		
2.6.5	C59	HANGAR SPACE		square feet		
2.6.6	C60	GRND FACS TO REHEARS		N/Y		
2.6.7	C61	IRREP HARM TO FORCES		N/Y		
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**0**	
		COLUMN Y/N WORD: PHYS VALUE			**0**	
		COLUMN Y/N WORD: TECH VALUE			**0**	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A19 AV TEST 3
				ID =>		A19
				LABEL =>	EXP INP	AV TEST 3
PHYSICAL FACTORS						
1.1	**CRITICAL AIR/LAND/SEA SPACE**					
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles		0
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles		0
1.1.3a	C3	LAND RESTRICT NONE		N/Y		
1.1.3b	C4	LAND RESTRICT SOME		N/Y		
1.1.3c	C5	LAND RESTRICT ALL		N/Y		
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles		0
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)		
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles		0
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles		0
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi		0
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y		
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)		
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi		0
1.1.12	C14	MIN ALT RESTRICT AIR		feet		
1.2		**TOPOGRAPHY**		[all/some match]	0	
1.2.1a	C15	MOUNTAINS		[bit check subword]	0	
1.2.1b	C16	FOREST/JUNGLE		N/Y		
1.2.1c	C17	CULTIVATED LOWLAND		N/Y		
1.2.1d	C18	SWAMP/RIVERINE		N/Y		
1.2.1e	C19	DESERT		N/Y		
1.2.1f	C20	SEA		N/Y		
				N/Y		
				[bit check subword]	0	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	EXP INP	A19 AV TEST 3
1.3		**CLIMATE**				
1.3.1	C21	AVG %DAYS VIS > 3 MI		%		
1.3.2	C22	AVG % NOT CANCEL WEA		%		
1.4		**ENCROACHMENT**				
1.4.1	C23	AVG % NOT CANCEL C/P		%		
1.4.2	C24	% MSNS NOT CANC ENCR		%		
1.4.3a	C25	POP IN 50 MILE RADII		no. people		
1.4.3b	C26	POP IN 150 MILE RADI		no. people		
1.4.3c	C27	POP IN 100 MILE RADI		no. people		
1.4.3d	C28	POP IN 200 MILE RADI		no. people		
1.5		**ENVIRONMENT**				
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N		
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N		
				[Y/N match]		
TECHNICAL FACTORS				[bit check subword]	0	
2.1		**DIGITAL MODELS & SIMULATION**				
2.1.1	C31	FAC SUPT TEST OPS		N/Y		
2.1.2	C32	IRREP HARM TO FORCES		N/Y		
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y		
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
2.2		**MEASUREMENT FACILITY**				
2.2.1	C35	FAC SPT TEST OPS		N/Y		

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL =>	EXP INP	A19 AV TEST 3
2.2.2	C36	IRREP HARM TO FORCES		N/Y		
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y		
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y		
2.3		INTEGRATION LABORATORY		[bit check subword]	0	
2.3.1	C39	FAC SPT TEST OPS		N/Y		
2.3.2	C40	IRREP HARM TO FORCES		N/Y		
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y		
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y		
2.4		HARDWARE-IN-THE-LOOP		[bit check subword]	0	
2.4.1	C43	FAC SPT TEST OPS		N/Y		
2.4.2	C44	IRREP HARM TO FORCES		N/Y		
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y		
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y		
2.5		INSTALLED TEST FACILITY		[bit check subword]	0	
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y		
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y		
2.5.3	C49	IRREP HARM TO FORCES		N/Y		
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y		
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y		
2.6		OPEN AIR RANGE		[bit check subword]	0	
2.6.1a	C52	TEST FIXED WING		N/Y		
2.6.1b	C53	TEST ROTARY WING		N/Y		

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ENTRY (UNITS)	EXP INP	A19 AV TEST 3
				ID =>		A19
				LABEL =>	EXP INP	AV TEST 3
2.6.1c	C54	TEST UNMANNED		N/Y		
2.6.1d	C55	CRUISE MISSILE		N/Y		
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions		
2.6.3	C57	CONCRETE RUNWAY		feet		
2.6.4	C58	RAMP AREA AVAIL		square feet		
2.6.5	C59	HANGAR SPACE		square feet		
2.6.6	C60	GRND FACS TO REHEARS		N/Y		
2.6.7	C61	IRREP HARM TO FORCES		N/Y		
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y		
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y		
				[bit check subword]	0	
		COLUMN NO. SUM: PHYS/TECH VALUE			**0**	
		COLUMN Y/N WORD: PHYS VALUE			**0**	
		COLUMN Y/N WORD: TECH VALUE			**0**	

Document Separator

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
		PHYSICAL FACTORS							
1.1		**CRITICAL AIR/LAND/SEA SPACE**							
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	0	43,440			
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	125,000			
1.1.3a	C3	LAND RESTRICT NONE		N/Y			0	16	
1.1.3b	C4	LAND RESTRICT SOME		N/Y			13	3	
1.1.3c	C5	LAND RESTRICT ALL		N/Y			4	12	
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	103,000			
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)	0	100,000			
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	49,774			
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	125,000			
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	500			
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y			9	7	
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)	0	100,000			
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	478			
1.1.12	C14	MIN ALT RESTRICT AIR		feet	0	1			
				[all/some match]					4
1.2		**TOPOGRAPHY**		[bit check subword]					
1.2.1a	C15	MOUNTAINS		N/Y			9	7	
1.2.1b	C16	FOREST/JUNGLE		N/Y			9	7	
1.2.1c	C17	CULTIVATED LOWLAND		N/Y			6	10	
1.2.1d	C18	SWAMP/RIVERINE		N/Y			6	10	
1.2.1e	C19	DESERT		N/Y			8	8	
1.2.1f	C20	SEA		N/Y			5	11	
				[bit check subword]					

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D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
1.3		CLIMATE							
1.3.1	C21	AVG %DAYS VIS > 3 MI		%	54	100			
1.3.2	C22	AVG % NOT CANCEL WEA		%	92	100			
1.4		ENCROACHMENT							
1.4.1	C23	AVG % NOT CANCEL C/P		%	100	100			
1.4.2	C24	% MSNS NOT CANC ENCR		%	100	100			
1.4.3a	C25	POP IN 50 MILE RADII		no. people	5,000	5,350,000			
1.4.3b	C26	POP IN 150 MILE RADI		no. people	350,000	16,070,000			
1.4.3c	C27	POP IN 100 MILE RADI		no. people	500,000	20,000,000			
1.4.3d	C28	POP IN 200 MILE RADI		no. people	1,290,000	30,000,000			
1.5		ENVIRONMENT							
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N			0	16	
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N			0	16	
				[Y/N match]					16
		TECHNICAL FACTORS		[bit check subword]					
2.1		DIGITAL MODELS & SIMULATION							
2.1.1	C31	FAC SUPT TEST OPS		N/Y			2	14	
2.1.2	C32	IRREP HARM TO FORCES		N/Y			2	14	
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y			0	16	
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y			0	16	
				[bit check subword]					
2.2		MEASUREMENT FACILITY							
2.2.1	C35	FAC SPT TEST OPS		N/Y			11	5	

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D-PAD INPUT DATA FORM FOR T&E									
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS									
SCORING				COLUMN:	SUMMARY				
QUESTION	ROW:			ID =>	STATISTICS				
NUMBER	ID	LABEL		LABEL =>					NO.
			EXPONENTIAL		ROW	ROW	NO.	NO.	Y=Y,
			THRESHOLD	ENTRY (UNITS)	MIN	MAX	YES	NO	N=N
PHYSICAL FACTORS									
1.1	CRITICAL AIR/LAND/SEA SPACE								
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	0	49,390			
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	125,000			
1.1.3a	C3	LAND RESTRICT NONE		N/Y			0	16	
1.1.3b	C4	LAND RESTRICT SOME		N/Y			13	3	
1.1.3c	C5	LAND RESTRICT ALL		N/Y			4	12	
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	103,000			
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)	0	100,000			
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	49,774			
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	125,000			
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	500			
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y			9	7	
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)	0	100,000			
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	478			
1.1.12	C14	MIN ALT RESTRICT AIR		feet	0	1			
				[all/some match]					4
1.2	TOPOGRAPHY			[bit check subword]					
1.2.1a	C15	MOUNTAINS		N/Y			9	7	
1.2.1b	C16	FOREST/JUNGLE		N/Y			9	7	
1.2.1c	C17	CULTIVATED LOWLAND		N/Y			6	10	
1.2.1d	C18	SWAMP/RIVERINE		N/Y			6	10	
1.2.1e	C19	DESERT		N/Y			8	8	
1.2.1f	C20	SEA		N/Y			5	11	
				[bit check subword]					

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D-PAD INPUT DATA FORM FOR T&E									
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS									
SCORING				COLUMN:	SUMMARY				
QUESTION	ROW:			ID =>	STATISTICS				
NUMBER	ID	LABEL		LABEL =>					NO.
			EXPONENTIAL		ROW	ROW	NO.	NO.	Y=Y,
			THRESHOLD	ENTRY (UNITS)	MIN	MAX	YES	NO	N=N
1.3		CLIMATE							
1.3.1	C21	AVG %DAYS VIS > 3 MI		%	54	100			
1.3.2	C22	AVG % NOT CANCEL WEA		%	92	100			
1.4		ENCROACHMENT							
1.4.1	C23	AVG % NOT CANCEL C/P		%	100	100			
1.4.2	C24	% MSNS NOT CANC ENCR		%	100	100			
1.4.3a	C25	POP IN 50 MILE RADII		no. people	5,000	5,350,000			
1.4.3b	C26	POP IN 150 MILE RADI		no. people	350,000	16,070,000			
1.4.3c	C27	POP IN 100 MILE RADI		no. people	500,000	20,000,000			
1.4.3d	C28	POP IN 200 MILE RADI		no. people	1,290,000	30,000,000			
1.5		ENVIRONMENT							
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N			0	16	
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N			0	16	
				[Y/N match]					16
TECHNICAL FACTORS				[bit check subword]					
2.1		DIGITAL MODELS & SIMULATION							
2.1.1	C31	FAC SUPT TEST OPS		N/Y			2	14	
2.1.2	C32	IRREP HARM TO FORCES		N/Y			2	14	
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y			0	16	
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y			0	16	
				[bit check subword]					
2.2		MEASUREMENT FACILITY							
2.2.1	C35	FAC SPT TEST OPS		N/Y			11	5	

D-PAD INPUT DATA FORM FOR T&E									
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS									
SCORING				COLUMN:	SUMMARY				
QUESTION	ROW:			ID =>	STATISTICS				
NUMBER	ID	LABEL		LABEL =>					NO.
			EXPONENTIAL		ROW	ROW	NO.	NO.	Y=Y,
			THRESHOLD	ENTRY (UNITS)	MIN	MAX	YES	NO	N=N
2.2.2	C36	IRREP HARM TO FORCES		N/Y			9	7	
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y			8	8	
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y			8	8	
				[bit check subword]					
2.3	**INTEGRATION LABORATORY**								
2.3.1	C39	FAC SPT TEST OPS		N/Y			3	13	
2.3.2	C40	IRREP HARM TO FORCES		N/Y			3	13	
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y			2	14	
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.4	**HARDWARE-IN-THE-LOOP**								
2.4.1	C43	FAC SPT TEST OPS		N/Y			2	14	
2.4.2	C44	IRREP HARM TO FORCES		N/Y			2	14	
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y			2	14	
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.5	**INSTALLED TEST FACILITY**								
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y			2	14	
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y			2	14	
2.5.3	C49	IRREP HARM TO FORCES		N/Y			2	14	
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y			2	14	
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.6	**OPEN AIR RANGE**								
2.6.1a	C52	TEST FIXED WING		N/Y			7	9	
2.6.1b	C53	TEST ROTARY WING		N/Y			7	9	

D-PAD INPUT DATA FORM FOR T&E

AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.6.1c	C54	TEST UNMANNED		N/Y			7	9	
2.6.1d	C55	CRUISE MISSILE		N/Y			4	12	
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions	0	15			
2.6.3	C57	CONCRETE RUNWAY		feet	0	14,995			
2.6.4	C58	RAMP AREA AVAIL		square feet	0	15,205,025			
2.6.5	C59	HANGAR SPACE		square feet	0	1,536,429			
2.6.6	C60	GRND FACS TO REHEARS		N/Y			8	8	
2.6.7	C61	IRREP HARM TO FORCES		N/Y			6	10	
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y			7	9	
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y			7	9	
				[bit check subword]					

COLUMN NO. SUM: PHYS/TECH VALUE

COLUMN Y/N WORD: PHYS VALUE

COLUMN Y/N WORD: TECH VALUE

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.2.2	C36	IRREP HARM TO FORCES		N/Y			9	7	
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y			8	8	
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y			8	8	
				[bit check subword]					
2.3	INTEGRATION LABORATORY								
2.3.1	C39	FAC SPT TEST OPS		N/Y			3	13	
2.3.2	C40	IRREP HARM TO FORCES		N/Y			3	13	
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y			2	14	
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.4	HARDWARE-IN-THE-LOOP								
2.4.1	C43	FAC SPT TEST OPS		N/Y			2	14	
2.4.2	C44	IRREP HARM TO FORCES		N/Y			2	14	
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y			2	14	
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.5	INSTALLED TEST FACILITY								
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y			2	14	
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y			2	14	
2.5.3	C49	IRREP HARM TO FORCES		N/Y			2	14	
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y			2	14	
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.6	OPEN AIR RANGE								
2.6.1a	C52	TEST FIXED WING		N/Y			7	9	
2.6.1b	C53	TEST ROTARY WING		N/Y			7	9	

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D-PAD INPUT DATA FORM FOR T&E

AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.6.1c	C54	TEST UNMANNED		N/Y			7	9	
2.6.1d	C55	CRUISE MISSILE		N/Y			4	12	
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions	0	15			
2.6.3	C57	CONCRETE RUNWAY		feet	0	14,995			
2.6.4	C58	RAMP AREA AVAIL		square feet	0	15,205,025			
2.6.5	C59	HANGAR SPACE		square feet	0	1,536,429			
2.6.6	C60	GRND FACS TO REHEARS		N/Y			8	8	
2.6.7	C61	IRREP HARM TO FORCES		N/Y			6	10	
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y			7	9	
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y			7	9	
				[bit check subword]					
		COLUMN NO. SUM: PHYS/TECH VALUE							
		COLUMN Y/N WORD: PHYS VALUE							
		COLUMN Y/N WORD: TECH VALUE							

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D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
PHYSICAL FACTORS									
1.1	CRITICAL AIR/LAND/SEA SPACE								
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	0	43,440			
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	125,000			
1.1.3a	C3	LAND RESTRICT NONE		N/Y			0	16	
1.1.3b	C4	LAND RESTRICT SOME		N/Y			13	3	
1.1.3c	C5	LAND RESTRICT ALL		N/Y			4	12	
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	103,000			
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)	0	100,000			
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	49,774			
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	125,000			
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	500			
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y			9	7	
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)	0	100,000			
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	478			
1.1.12	C14	MIN ALT RESTRICT AIR		feet	0	1			
				[all/some match]					4
1.2	TOPOGRAPHY			[bit check subword]					
1.2.1a	C15	MOUNTAINS		N/Y			9	7	
1.2.1b	C16	FOREST/JUNGLE		N/Y			9	7	
1.2.1c	C17	CULTIVATED LOWLAND		N/Y			6	10	
1.2.1d	C18	SWAMP/RIVERINE		N/Y			6	10	
1.2.1e	C19	DESERT		N/Y			8	8	
1.2.1f	C20	SEA		N/Y			5	11	
				[bit check subword]					
1.3	CLIMATE								

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
1.3.1	C21	AVG %DAYS VIS > 3 MI		%	54	100			
1.3.2	C22	AVG % NOT CANCEL WEA		%	92	100			
1.4		**ENCROACHMENT**							
1.4.1	C23	AVG % NOT CANCEL C/P		%	100	100			
1.4.2	C24	% MSNS NOT CANC ENCR		%	100	100			
1.4.3a	C25	POP IN 50 MILE RADII		no. people	5,000	5,350,000			
1.4.3b	C26	POP IN 150 MILE RADI		no. people	350,000	16,070,000			
1.4.3c	C27	POP IN 100 MILE RADI		no. people	500,000	20,000,000			
1.4.3d	C28	POP IN 200 MILE RADI		no. people	1,290,000	30,000,000			
1.5		**ENVIRONMENT**							
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N			0	16	
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N			0	16	
				[Y/N match]					16
TECHNICAL FACTORS				[bit check subword]					
2.1		**DIGITAL MODELS & SIMULATION**							
2.1.1	C31	FAC SUPT TEST OPS		N/Y			2	14	
2.1.2	C32	IRREP HARM TO FORCES		N/Y			2	14	
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y			0	16	
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y			0	16	
				[bit check subword]					
2.2		**MEASUREMENT FACILITY**							
2.2.1	C35	FAC SPT TEST OPS		N/Y			11	5	
2.2.2	C36	IRREP HARM TO FORCES		N/Y			9	7	
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y			8	8	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y			8	8	
				[bit check subword]					
2.3		**INTEGRATION LABORATORY**							
2.3.1	C39	FAC SPT TEST OPS		N/Y			3	13	
2.3.2	C40	IRREP HARM TO FORCES		N/Y			3	13	
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y			2	14	
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.4		**HARDWARE-IN-THE-LOOP**							
2.4.1	C43	FAC SPT TEST OPS		N/Y			2	14	
2.4.2	C44	IRREP HARM TO FORCES		N/Y			2	14	
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y			2	14	
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.5		**INSTALLED TEST FACILITY**							
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y			2	14	
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y			2	14	
2.5.3	C49	IRREP HARM TO FORCES		N/Y			2	14	
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y			2	14	
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.6		**OPEN AIR RANGE**							
2.6.1a	C52	TEST FIXED WING		N/Y			7	9	
2.6.1b	C53	TEST ROTARY WING		N/Y			7	9	
2.6.1c	C54	TEST UNMANNED		N/Y			7	9	
2.6.1d	C55	CRUISE MISSILE		N/Y			4	12	
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions	0	15			

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.6.3	C57	CONCRETE RUNWAY		feet	0	14,995			
2.6.4	C58	RAMP AREA AVAIL		square feet	0	15,205,025			
2.6.5	C59	HANGAR SPACE		square feet	0	1,536,429			
2.6.6	C60	GRND FACS TO REHEARS		N/Y			8	8	
2.6.7	C61	IRREP HARM TO FORCES		N/Y			6	10	
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y			7	9	
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y			7	9	
				[bit check subword]					
		COLUMN NO. SUM: PHYS/TECH VALUE							
		COLUMN Y/N WORD: PHYS VALUE							
		COLUMN Y/N WORD: TECH VALUE							

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => LABEL => ENTRY (UNITS)	SUMMARY STATISTICS ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
		PHYSICAL FACTORS							
1.1		**CRITICAL AIR/LAND/SEA SPACE**							
1.1.1	C1	AVAIL TEST LAND SPAC	40,000	square miles	0	43,440			
1.1.2	C2	AVAIL TEST SEA SPACE	40,000	square miles	0	346,971			
1.1.3a	C3	LAND RESTRICT NONE		N/Y			0	16	
1.1.3b	C4	LAND RESTRICT SOME		N/Y			13	3	
1.1.3c	C5	LAND RESTRICT ALL		N/Y			4	12	
1.1.4	C6	SIZE RESTR AIR SPACE	40,000	square miles	0	345,041			
1.1.5	C7	MAX TO MIN ALT RESTR		feet (upper - lower)	0	100,000			
1.1.6	C8	AIR AVAIL OVER LAND	40,000	square miles	0	202,867			
1.1.7	C9	AIR AVAIL OVER SEA	40,000	square miles	0	347,241			
1.1.8	C10	MAX LINE SEG AIRSPAC	1,200	nmi	0	3,042			
1.1.9	C11	SUPERSONIC CORRIDORS		N/Y			9	7	
1.1.10	C12	MIN TO MAX ALT SUPER		feet (upper - lower)	0	100,000			
1.1.11	C13	MAX LINE SEG SUPERSO	400	nmi	0	2,290			
1.1.12	C14	MIN ALT RESTRICT AIR		feet	0	1			
				[all/some match]					4
1.2		**TOPOGRAPHY**		[bit check subword]					
1.2.1a	C15	MOUNTAINS		N/Y			9	7	
1.2.1b	C16	FOREST/JUNGLE		N/Y			9	7	
1.2.1c	C17	CULTIVATED LOWLAND		N/Y			6	10	
1.2.1d	C18	SWAMP/RIVERINE		N/Y			6	10	
1.2.1e	C19	DESERT		N/Y			8	8	
1.2.1f	C20	SEA		N/Y			5	11	
				[bit check subword]					

cells took sum rather than max value.
JLH

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D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
1.3		**CLIMATE**							
1.3.1	C21	AVG %DAYS VIS > 3 MI		%	54	100			
1.3.2	C22	AVG % NOT CANCEL WEA		%	92	100			
1.4		**ENCROACHMENT**							
1.4.1	C23	AVG % NOT CANCEL C/P		%	100	100			
1.4.2	C24	% MSNS NOT CANC ENCR		%	100	100			
1.4.3a	C25	POP IN 50 MILE RADII		no. people	5,000	5,350,000			
1.4.3b	C26	POP IN 150 MILE RADI		no. people	350,000	16,070,000			
1.4.3c	C27	POP IN 100 MILE RADI		no. people	500,000	20,000,000			
1.4.3d	C28	POP IN 200 MILE RADI		no. people	1,290,000	30,000,000			
1.5		**ENVIRONMENT**							
1.5.1	C29	FAC LIMIT BY ENVIRON		Y/N			0	16	
(repeat)	C30	FAC LIMIT BY ENVIRON		Y/N			0	16	
				[Y/N match]					16
TECHNICAL FACTORS				[bit check subword]					
2.1		**DIGITAL MODELS & SIMULATION**							
2.1.1	C31	FAC SUPT TEST OPS		N/Y			2	14	
2.1.2	C32	IRREP HARM TO FORCES		N/Y			2	14	
2.1.3	C33	FAC SPT TS/SAR WORK		N/Y			0	16	
2.1.4	C34	SPEC FAC SPT TEST OP		N/Y			0	16	
				[bit check subword]					
2.2		**MEASUREMENT FACILITY**							
2.2.1	C35	FAC SPT TEST OPS		N/Y			11	5	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.2.2	C36	IRREP HARM TO FORCES		N/Y			9	7	
2.2.3	C37	FAC SPT TS/SAR WORK		N/Y			8	8	
2.2.4	C38	SPEC FAC SPT TEST OP		N/Y			8	8	
				[bit check subword]					
2.3	**INTEGRATION LABORATORY**								
2.3.1	C39	FAC SPT TEST OPS		N/Y			3	13	
2.3.2	C40	IRREP HARM TO FORCES		N/Y			3	13	
2.3.3	C41	FAC SPT TS/SAR WORK		N/Y			2	14	
2.3.4	C42	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.4	**HARDWARE-IN-THE-LOOP**								
2.4.1	C43	FAC SPT TEST OPS		N/Y			2	14	
2.4.2	C44	IRREP HARM TO FORCES		N/Y			2	14	
2.4.3	C45	FAC SPT TS/SAR WORK		N/Y			2	14	
2.4.4	C46	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.5	**INSTALLED TEST FACILITY**								
2.5.1	C47	SPT FIGHTER/HELO A/C		N/Y			2	14	
2.5.2	C48	SPT B-1B/CARGO A/C		N/Y			2	14	
2.5.3	C49	IRREP HARM TO FORCES		N/Y			2	14	
2.5.4	C50	FAC SPT TS/SAR WORK		N/Y			2	14	
2.5.5	C51	SPEC FAC SPT TEST OP		N/Y			2	14	
				[bit check subword]					
2.6	**OPEN AIR RANGE**								
2.6.1a	C52	TEST FIXED WING		N/Y			7	9	
2.6.1b	C53	TEST ROTARY WING		N/Y			7	9	

D-PAD INPUT DATA FORM FOR T&E
AIR VEHICLE FUNCTIONAL VALUE SCORING PROCESS

SCORING QUESTION NUMBER	ROW: ID	ROW: LABEL	EXPONENTIAL THRESHOLD	COLUMN: ID => / LABEL => / ENTRY (UNITS)	SUMMARY STATISTICS: ROW MIN	ROW MAX	NO. YES	NO. NO	NO. Y=Y, N=N
2.6.1c	C54	TEST UNMANNED		N/Y			7	9	
2.6.1d	C55	CRUISE MISSILE		N/Y			4	12	
2.6.2	C56	SIM MSNS W/TELEMETRY		no. missions	0	15			
2.6.3	C57	CONCRETE RUNWAY		feet	0	14,995			
2.6.4	C58	RAMP AREA AVAIL		square feet	0	15,205,025			
2.6.5	C59	HANGAR SPACE		square feet	0	1,536,429			
2.6.6	C60	GRND FACS TO REHEARS		N/Y			8	8	
2.6.7	C61	IRREP HARM TO FORCES		N/Y			6	10	
2.6.8	C62	FAC SPT TS/SAR WORK		N/Y			7	9	
2.6.9	C63	SPEC FAC SPT TEST OP		N/Y			7	9	
				[bit check subword]					
		COLUMN NO. SUM: PHYS/TECH VALUE							
		COLUMN Y/N WORD: PHYS VALUE							
		COLUMN Y/N WORD: TECH VALUE							

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DoD Air Vehicle T&E Facilities

Capacity & Requirements Summary

SECTION II: FACILITY HISTORICAL WORKLOAD, EXCLUSIONS & PROJECTED REQUIREMENTS

NR	# TESTS	FACILITY	FUNCTIONAL AREA												PROJECTED REQ (TEST HOU	
			AV				EC				AW					
			FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	AV	EC
[1]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
205	3	T&E Mission Simulator	362	388	1987	88	EAFB	- DMS	E-5				E-5		270	
193	2	Human Centrifuge-DFS	1393	1393	1393	93	WARN	- DMS	E-5				E-5		1003	
		DMS SUB TOTAL	1755	1781	3380										1273	DMS
264	3	Radar Test Facility	2683	2683	2683	93	TYNDA	- HITL	E-5				E-5		1932	
151	30	Flt Cntrl Cmptr Test	1460	1460	1460	93			E-5				E-5		1051	
152	3	Integ A/C Test Lab	2703	4343	4343	93			E-5				E-5		2537	
149	12	A/C Sys Test Fac	9924	10109	10710	89			E-5				E-5		7212	
150	8	A/C Stores Cert Test	9300	9300	9300	93			E-5				E-5		6696	
148	49	A/C Electrical Eval Fac	63072	63072	63072	93			E-5				E-5		45412	
153	45	A/C Supt Sys Test Fac	74486	62545	74486	92			E-5				E-5		49331	
		NAWCAD/PAX HITL SUBTOTAL	160945	150829	163371		PAX -	HITL							112239	
		HITL SUBTOTAL	163628	153512	166054										114171	HITL
			8352												5549	
219	7	IFAST	8532	7061	8999	91	928	785	998	91			E-5		~~5613~~	617
214	64	Instrumented Prop Complex	88800	88800	110000	87			E-5				E-5		63936	
		AFTC IL SUB TOTAL	97332	95861	118999		EAFB	- IL							69549	
122	8	TACAIR Pod Lab	1760	1728	1786	86			E-5				E-5		1256	1256
126	54	Integ Avionics Lab	12320	12096	12502	86			E-5				E-5		8790	
		NAWCAD/INDY SUB TOTAL	14080	13824	14288		INDIAN	- IL							10045	
145	10	Helicop Msn Sys Supt	3120	3200	4880	89	PAX	- IL	E-5				E-5		2275	
		IL SUB TOTAL	114532	112885	138167		~~PAX~~								81870	IL
223	2	BAF & ECIT	51	286	1968	90	EAFB	ISTF 99	E-5	90		46	E-5		121	36
154	55	Air Combat Envir T&E	12418	14119	14119	93	4293	4198	4893	91	803	931	931	93	9553	3057
		ISTF SUB TOTAL	12469	14405	16087		PAX	ISTF							9674	ISTF

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DoD Air Vehicle T&E Facilities

Capacity & Requirements Summary

SECTION II: FACILITY HISTORICAL WORKLOAD, EXCLUSIONS & PROJECTED REQUIREMENTS

NR	# TESTS	FACILITY	FUNCTIONAL AREA												PROJECTED REQ (TEST HOU	
			AV				EC				AW					
			FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	AV	EC
[1]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
212	4	Human Factors Lab	1822	1595	1822	92	EAFB	- MFA	E-5				E-5		1230	
134	2	EW/Avionics Flt Test	272	147	384	87			E-100				E-5		151	
136	1	Aircraft T&E Facility	1820	920	2772	91			E-5				E-5		986	
133	4	A/C Arm Sys Sim Eng				94			E-5				E-5			
		NAWCAD/PAX MF-A SUB TOTAL	2092	1067	3156		PAX-	MFA							1137	
16	12	Range Operations	174	151	784	86	223	194	1008	86			E-5		117	150
22	14.4	Avionics/GPS Test	213 ~~2129~~	95 ~~1946~~	~~3925~~ 3	93 89			E-5				E-5		147 ~~1467~~	
		EPG MF-A SUB TOTAL	2303	2097	4709		EPG	- MFA							1584	
		MF-A SUB TOTAL	6217	4759	9687										3951	MF-A
138	9	Combat Identif Sys	146	97	194	86	30	20	E-5				E-5		87	18
135	8	ATLAS In-Flt Meas Cap	279	293	385	90			E-100				E-5		206	
139	3	Grnd Rng Ant Test Fac	518	504	632	91	310	305	325	87			E-5		368	221
141	1	Communic T&E Lab	440	880	880	93	100	50	E-5				E-5		475	54
		NAWCAD/PAX MF-C SUB TOTAL	1383	1774	2091		PAX-	MFC							1136	
		MF-C SUB TOTAL	1383	1774	2091										1136	MF-C
AFDTC 245	6	McKinley Climatic Lab	6816	6576	6816	92	AF ~~4656~~	- MFE ~~1040~~	4656	92			E-5		4821	2051
211	8	GVT and Structures Labs	1570	1570	1570	93	EAFB	- MFE	E-5				E-5		1130	
51	40	Envir Test Complex	439	368	1157	89	CH HK	- MFE	E-5		18146	16866	20809	89	291	
INDIANAP 120	43	PQA&E Facility	22880	22464	23218	86	~~PAX~~ ~~6024~~	IA ~~6024~~ MFE	E-5	93	6024	6024	E-5		16324	4337
169	2	Sea Level Clim Chmbr	332	575	575	93	PT MUGU	- MFE	E-5		288	501	501	93	327	
17	105	Environmental Test Fac	129	244	1681	89	EPA ~~118~~	- MI ~~223~~	775	87			E-5		134	123
30	39	Environ Simulation	179	184	297	90	YPG-	MFE	E-5		187	167	201	90	131	
		MF-E SUB TOTAL	32345	31981	35315										23158	MF-E

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DoD Air Vehicle T&E Facilities

Capacity & Requirements Summary

SECTION II: FACILITY HISTORICAL WORKLOAD, EXCLUSIONS & PROJECTED REQUIREMENTS

NR	# TESTS	FACILITY	FUNCTIONAL AREA												PROJECTED REQ (TEST HOU	
			AV				EC				AW					
			FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	AV	EC
[1]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
108	8	EM Vulnerability Fac	1513	1106	3347	87	DAHLGREN - MFEM		E-5		889	1011	1011	93	943	
		MF-EM SUB TOTAL	1513	1106	3347										943	MF-EM
260	52	CIGTF	42200	33800	42200	92	HOLL - MFG	2400	2400	93	8000	4800	23000	87	27360	864
246	13	Multi-Spec Sig Msmt	4	245	245	93	AEDC 728 - MFG	215	728	92	1187	1579	2919	90	90	339
55	55	IR Seeker, GCS DDT&E	2138	2138	2138	93	CHLK - MFG		E-5		947	1109	1109	93	1539	
142	2	Surv & Topo Rad Sys	462	504	504	93			E-5				E-5		348	
137	27	EO & Recon Sys Test	1920	1920	2400	90			E-5				E-5		1382	
		NAWCAD/PAX MF-G SUB TOTAL	2382	2424	2904		PAX - MFG								1730	
		MF-G SUB TOTAL	46724	38607	47487										30719	MF-G
241	2	Air Breath Engine TF	423	831	1179	88			E-5				E-5		451	
243	2	Propul Wind Tunnel	2603	3280	3636	89			E-5		2707	1699	3770	90	2118	
		AEDC MF-P SUB TOTAL	3026	4111	4815		AEDC - MFP								2569	
131	15	Propul Sys Eval Fac	32340	32340	32340	93	PAX - MFP		E-5				E-5		23285	
		MF-P SUB TOTAL	38392	40562	41970										25854	MF-P
262	1	Holloman Hi-Spd Sled	256	216	614	90	HOL 100 - MFST	58	E-5		660	787	787	93	170	57
		MF-ST SUB TOTAL	256	216	614										170	MF-ST
		MF SUB TOTAL	261564	245157	293268										179850	
RFC 227	4	AFFTC Open Air Range	10064	11000	11998	90	EAFB - OAR		E-5		500	554	E-O	89	7583	
238a		UTTR Open Air Range	2009	3380	3380	93	UTTR - OAR		E-5				E-5		1940	
6	8	Airworthiness Qual	1768	1726	2626	90	ATQD - OAR		E-5				E-5		1258	
5	16	Av Tech Test Cntr	5305	5183	12050	86	ATTC - OAR		E-5				E-5		3776	
18	8	Instrument. Test Range	569	200	646	90	EPG 758 - OAR	267	861	90			E-5		277	369

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DoD Air Vehicle T&E Facilities

Capacity & Requirements Summary

SECTION II: FACILITY HISTORICAL WORKLOAD, EXCLUSIONS & PROJECTED REQUIREMENTS

NR	# TESTS	FACILITY	FUNCTIONAL AREA												PROJECTED REQ (TEST HOU	
			AV				EC				AW					
			FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	FY92	FY93	PEAK	YEAR	AV	EC
[1]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
26	9	Air Veh/Gen Supt	484	230	484	92			E-5		250	114	250	92	257	
24	7	A/C Wpns Integ Rng	5544	3197	5544	92			E-5		1802	900	1802	92	3147	
		YPG OAR SUB TOTAL	6028	3427	6028		YPG	-OAR								
155	15	Chesapeake Test Rng	10992	10289	12246	89	PAX 92	-OAR 88	E-5		90	84	E-5		7661	65
185	4	Sea Test Range	2488	2177	4787	87	PJ MTO	-OAR 405	E-5		5817	5483	11609	87	1679	63
		OAR SUB TOTAL	45251	40809	59789										27578	OAR

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MEMORANDUM

Subj: **Navy Peak Hours Calculation**

From: Doug Nation

1. The following protocol is to be used for ***all*** China Lake, and Pt Mugu installations except for Pt. Mugu **Sea Test Range** for which no calculation is necessary:

- For *each* facility which has *not been excluded*, sum the *Functional Area Percentages* for T&E, S&T, DE, IE, T&D, and "Other" in the **General Information Table** and divide this percentage into the T&E Functional Area Percentage; then multiply the result by Peak Test Hours as reflected in the **Historical Workload** table. Use this result in the *Peak, FY92 & FY93* columns.

(CDR Samuals indicated that it may be necessary to do this for all Navy Installations but that will not be known until the team is further along in the scoring effort during which they will be examining this data.)

2. For Indianapolis: we will have to use a different percentage for each year; these percentages have been requested and we can do no more with this installation until we obtain the data.

3. The Central Computing Facility and Secure Compartment Integration facility will be entered under Indianapolis and annotate as follows:

Central Computing	Excluded -***Support***
Secure Compartment	Excluded-***5% Rule***

These exclusions are for all categories (AV, EC, AW)

Distribution
IDA Staff

SCORING FORM FOR AIR VEHICLE

ACTIVITY: Pax River BOOK: 214

Physical Value - Critical Air/Land/Sea Space

Question	Score	Reference Source/Remarks
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)	2460	EC 026 P.90
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)	68,488	EC 026 P.90
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2) a. None	No	P.91
b. Some	Yes	P.91
c. All	No	P.91
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)	69,903	EC 026 P.90A TOTAL R4005N Chessie 70,835 + 113 + 1045 R4005N NOT INCLUDED IN TOTAL
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)	100,000	P.120
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)	2,460	EC 026 P.90
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)	68,488	EC 026 P.90
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)	250	P.102
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)	Yes	P.118
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)	100,000	P.120
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)	250	P.121

TPB

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued) 214

Question	Score	Reference Source/Remarks
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)	∅	P.92
Remarks		

Physical Value - Topographical

Question	Score	Reference Source/Remarks
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)		
a. Mountainous	yes	P. 106 +107
b. Forested or jungle	yes	P.107
c. Cultivated lowland (farmland)	yes	P.107
d. Swamp or riverine	yes	P.107
e. Desert	no	P.104
f. Sea	yes	P.106
Remarks		

Physical Value - Climatic

Question	Score	Reference Source/Remarks
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)	93.4%	P. 113

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic (Continued) 214

Question	Score	Reference Source/Remarks
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)	93.5	P.112 Based on Range 5-8% Cancelled missions and Issue 1
Remarks		

Physical Value - Encroachment

Question	Score	Reference Source/Remarks
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)	100%	P.60
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)	100%	P. 60
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles	1,132,793	P. 59
b. 100 miles	9,048,269	P. 59
c. 150 miles	17,660,919	P. 59
d. 200 miles	24,209,467	P. 59
Remarks		

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

214

Question	Score	Reference Source/Remarks
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)	No	P. 56
Remarks		

Technical Value - Digital Models and Simulations (DM&S)

Question	Score	Reference Source/Remarks
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)	NO	P. 177
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	NO	
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	NO	
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)	NO	
Remarks No Facilities Identified as DM&S as Primary Test Facility Category		

Technical Value - Measurement Facilities (MF)

Question	Score	Reference Source/Remarks
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)	yes	ATLAS P. 496
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	yes	P. 223
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	yes	P. 246

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued) 214

Question	Score	Reference Source/Remarks
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)	yes	P.60
Remarks		

Technical Value - Integration Labs (IL)

Question	Score	Reference Source/Remarks
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)	yes	Helicopter Mission Systems Support P.417
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	yes	P.187
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	yes	P.197
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)	yes	P. 60
Remarks		

Technical Value - Hardware-In-The-Loop (HITL)

Question	Score	Reference Source/Remarks
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)	yes	Aircrew System Test P.574
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	yes	P.295

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued) 214

Question	Score	Reference Source/Remarks
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)	yes	P. 307
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)	yes	P. 60
Remarks		

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Score	Reference Source/Remarks
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)	yes	Air Combat Environment T+E P. 624
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)	yes	P. 340
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	yes	P. 324
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	yes	P. 329
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)	yes	P. 60
Remarks		

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR) 214

Question	Score	Reference Source/Remarks
2.6.1 How many of the following types of air vehicles can be tested (3.2.C.1): a. fixed wing?	yes	P. 135
b. rotary wing?	yes	P. 135
c. unmanned?	yes	P. 135
d. cruise missile?	yes	P. 138
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)	12	P. 389
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)	11,800	P. 124
6.4 What is the ramp area available (in sq ft)? 2.B.1)	4,646,802	Av 042 + 046
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1	745,968	Av 011
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)	yes	P. 139
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	yes	P. 355
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)	yes	P. 381
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)	yes	P. 60
Remarks Chesapeake Test Range		

FACILITY/CAPABILITY: Pax River – Communication Test & Eval (ComTEL)

TEST FACILITY CATEGORY: MF Page 547 Book 214

% T&E - OVERALL: 85

AV: 80

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 1 Page 553

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .88 x 500 = 440 FY93 .88 x 1000 = 880 Page 547 + Page 552

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

*Air Vehicle % 80/(80+3+8) = .88 Page 547

Historical Peak (HP) = .88 x 1000 = 880 (FY93) Page 552 Book 214

Projected Workload = $\left(\frac{440 + 880}{2}\right) \times .72 = 475$

* WORKLOAD ASSUMED TO BE A MIXTURE OF T&E, S&T, D&E etc UNLESS OTHERWISE INDICATED ON GENERAL INFORMATION FORM FOR ALL PAX RIVER FACILITIES.

reference MEMO DATED 09/23/94 11:12 AM

PAX

FACILITY/CAPABILITY: COMMUNICATIONS TEST & EVAL (COMTEL)

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 85 PSL DRS

AV: 80 PSL DRS ⇒ 88%

EC: 5

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 1 PSL DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~500~~ 440 PSL DRS

EC: FY92 100

A/W: FY92

= .88 x 500 = 440

FY93 ~~1000~~ 880 PSL DRS

FY93 50

FY93

= .88 x 1000 = 880

peak = 1000 FY93
pg 552 Book 2/4

HP = ~~1,000~~ (FY 93) 1000 x .88 = 880

PWL = $\left(\frac{\cancel{500}\ 440 + \cancel{1000}\ 880}{2}\right)(.72) = \cancel{540}\ 475$

FACILITY/CAPABILITY: PATuxeNT River Propulsion System Eval FAC.

TEST FACILITY CATEGORY: MF Page 462 Book 214

% T&E - OVERALL: 80

AV: 80

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 15 PAGE 469

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .8 x 40425 = 32,340 FY93 .8 x 40425 = 32,340

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

Air vehicle % 80/(80+20) = .8 Page 462 PAGE 462

Historical workload Peak = .8 x 40,425 = 32,340 (FY93) P. 468

Projected workload = $\left(\frac{32,340 + 32,340}{2}\right) \times .72 = 23,285$

(PAX)

FACILITY/CAPABILITY: PROPULSION SYSTEM EVALUATION

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 80 PCT DCS ~~Dec~~

AV: 80 PCT DCS ~~Dec~~ ⇒ 80%

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 15 PCT DCS ~~Dec~~ **

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~40425~~ 32,340 PCT DCS ~~Dec~~ FY93 ~~40425~~ 32,340 PCT DCS ~~Dec~~

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

= .8 x 40425 = 32,340 = .8 x 40425 = 32,340

peak = 40,425
FY93
pg 468 book 214

* NOTE 15 x SINGLE SHIFT IS ≈ 30,000 TEST HOURS WHICH IS LESS THAN HISTORICAL WORKLOAD, BUT APPROX EQUAL TO 7/10 OF HISTORICAL WORKLOAD.

HP = ~~40,425~~ (FY93) 40,425 x .8 = 32,340 DCS

$$PWL = \left(\frac{\cancel{40425}\ 32,340 + \cancel{40425}\ 32,340}{2}\right)(.72) = \cancel{29,106}\ 23,285 \text{ DCS}$$

FACILITY/CAPABILITY: PAX ELECTRO OPTICAL & RECON SYSTEM TEST

TEST FACILITY CATEGORY: MF Page 512 Book 214

% T&E - OVERALL: 100

AV: 100

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 27 Page 519

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1x 1920 = 1920 FY93 1x 1920 = 1920 Page 518

EC: FY92 FY93

A/W: FY92 FY93

Air Vehicle % = 100/100 = 1 Page 512

Historical Peak = 1x 2400 = 2400 (FY90) Page 518

Peak Workload = $\left(\frac{1920+1920}{2}\right) \times .72 = 1382.4$

* NOTE: • ALL Historical Workload Listed as "EC"
• RFC AV014 Certified data change historical Workload from EC to AV

(PAX)

• RFC

FACILITY/CAPABILITY: ELECTRO OPTICAL & RECON SYSTEM TEST

TEST FACILITY CATEGORY: MF

pg 512

% T&E - OVERALL: 100 % RFC DCS

AV: 100 % RFC DCS

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 27 RFC DCS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1920 * FY93 1920 *

EC: FY92 ~~1920~~ FY93 ~~1920~~

A/W: FY92 FY93

peak = 2400 FY90
pg 518 book 214

*NOTE: ALL HISTORICAL WORKLOAD LISTED AS "EC"

– RFC AV 14 certified data change historical workload from EC to AV.

9/14/94

HP 2400 (FY90)

PWL $\left(\frac{1920 + 1920}{2}\right)(.72) = 1382.4$

PAX

FACILITY/CAPABILITY: AIRCRAFT TEST & EVALUATION FACILITY (ATEF)

TEST FACILITY CATEGORY: MF

Page 504 Book 214

% T&E - OVERALL: 100

AV: 100

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 1 Page 510

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1820 FY93 920 Page 509

EC: FY92 FY93

A/W: FY92 FY93

Air Vehicle % = $\frac{100}{100} = 1$ Page 504

Historical Peak = 2772 (FY91) Page 509

Peak Workload = $\left(\frac{1820+920}{2}\right) \times .72 = 986.4$

PAX

FACILITY/CAPABILITY: AIRCRAFT TEST & EVAL FACILITY (ATEF)

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 100 percent

AV: 100 percent

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 1

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1820 hrs FY93 920 hrs

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

peak = 2772 FY91
pg 509 book 214

HP = 2772 (FY91)

$$PWL = \left(\frac{1820 + 920}{2}\right)(.72) = 986.4$$

PAX.

FACILITY/CAPABILITY: Combat IDENTIFICATION SYSTEMS

TEST FACILITY CATEGORY: MF Page 524 Book 214

% T&E - OVERALL: 55

AV: 50

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 9 Page 530

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .54 x 270 = 146 FY93 .54 x 180 = 97 Page 524 + 529

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

$$Av\ \% = \frac{50}{50+28+10+5} = \frac{50}{93} = .54$$ Page 524

Historical Peak = .54 x 360 (FY86) = 194 Page 524 + P529

$$\text{Peak Workload} = \left(\frac{146+97}{2}\right) \times .72 = 87$$

FACILITY/CAPABILITY: (PAX) COMBAT IDENTIFICATION SYSTEMS

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 55 PER DRS

AV: 50 PER DRS ⇒ 54%

EC: 5

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 9 PER DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 270 PER DRS

FY93 180 PER DRS

EC: FY92 30

FY93 20

A/W: FY92 _____ DEL

= .54 × 270 = 146

FY93 _____ DEL

= .54 × 180 = 97

peak = 360 FY86
pg 529 book 214

HP = ~~360~~ (FY86) 360 × .54 = 194 DEL

PWL = $\left(\frac{\overset{146}{\cancel{270}} + \overset{97}{\cancel{180}}}{2}\right)(.72) = \overset{87}{\cancel{162.0}}$ DEL

PAX

FACILITY/CAPABILITY: Ground Range Antenna Test (GRATF)

TEST FACILITY CATEGORY: MF Page 532 Book 214

% T&E - OVERALL: 70

AV: 50

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 3 Page 537

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .71 x 730 = 518 FY93 .71 x 710 = 504 Page 532 + Page 536

EC: FY92 FY93

A/W: FY92 FY93

Air Vehicle % = $\frac{50}{50+15+5} = \frac{50}{70} = .71$ Page 532

FY91

HISTORICAL Peak = .71 x 890 = 632 Page 536

Projected Workload = $\left(\frac{518+504}{2}\right) \times .72 = 368$

(PAX)

FACILITY/CAPABILITY: GROUND RANGE ANTENNA TEST (GRATF)

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 70 RCL DRS

AV: 50 RCL DRS => 71%

EC: 20

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 3 RCL DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 730 RCL DRS FY93 710 RCL DRS

EC: FY92 310 FY93 305

A/W: FY92 FY93

= 730 x .71 = 518 A = 710 x 710 = 504 A DRS

peak = 890
FY91
pg 536 book 214

HP = ~~890~~ (FY 91) 890 x .71 = 632 DRS

PWL = $\left(\frac{\overset{518}{\cancel{730}} + \overset{504}{\cancel{710}}}{2}\right)(.72) = \cancel{518.4}$ 368 DRS

(PAX)

FACILITY/CAPABILITY: AIRCRAFT ARMAMENT SYSTEMS SIMULATION ENGINEERING TEST STATION (AASSETS)

TEST FACILITY CATEGORY: MF

Page 479 Book 214

% T&E - OVERALL: 100 RZ DRS

AV: 100 RZ DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 4 RZ DRS Page 485

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 Ø * RZ DRS FY93 Ø * RZ DRS Page 484

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

Av % = $\frac{100}{100} = 1$ Page 479

* NEW FACILITY NO HISTORICAL WORKLOAD

HP = Ø

PWL = Ø

Page 484

PAX

FACILITY/CAPABILITY: Electronic Warfare / Avionics Flight Test Fac

TEST FACILITY CATEGORY: MF Page 487 Book 2.4

% T&E - OVERALL: 80

AV: 60

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .8 x 340 = 272 FY93 .8 x 184 = 147 Page 487 + 492

EC: FY92 FY93

A/W: FY92 FY93

Av % = $\frac{60}{60+15}$ = .8 Page 487

Historical Peak = .8 x 480 = 384 (FY87) Page 492

Peak Workload = $\left(\frac{272+147}{2}\right) \times .72 = 151$

(PAX)

FACILITY/CAPABILITY: ELECTRONIC WARFARE / AVIONICS FLT TEST

TEST FACILITY CATEGORY: mF

% T&E - OVERALL: 80% REV DRS

AV: 60% REV DRS ⇒ 80%

EC: 20% DRS

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 REV DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 340 REV DRS FY93 184 REV DRS

EC: FY92 114 FY93 61

A/W: FY92 _____ FY93 _____ DRS

= 340 x .8 = 272 = 184 x .8 = 147

peak = 480 FY87
pg 492 book 214

HP = ~~480~~ (FY87) 480 x .8 = 384 DRS

PWL = $\left(\frac{\overset{272}{\cancel{340}} + \overset{147}{\cancel{184}}}{2}\right)(.72) = \overset{151}{\cancel{185.64}}$ A

PAX

FACILITY/CAPABILITY: ANTENNA TESTING LAB AUTOMATED SYSTEM (ATLAS)

TEST FACILITY CATEGORY: MF Page 496 Book 214

% T&E - OVERALL: 90

AV: 75

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 4 Page 502

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .93 x 300 = 279 FY93 .93 x 315 = 293 Page 496 + 501

EC: FY92 FY93

A/W: FY92 FY93

Av % = $\frac{75}{75+3+3}$ = .93 Page 496

HISTORICAL PEAK = .93 x 414 = 385 (FY90) Page 501

PEAK WORKLOAD = $\left(\frac{279 + 293}{2}\right) \times .72 = 206$

(PAX)

FACILITY/CAPABILITY: ANTENNA TESTING LAB AUTOMATED SYSTEM (ATLAS)

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 90% PSZ

AV: 75 PSZ ⇒ 93%

EC: 5

A/W: 10

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 4 PSZ

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 300 PSZ FY93 315 PSZ

EC: FY92 84 FY93 24

A/W: FY92 FY93

= .93 x 300 = 279 = .93 x 315 = 293

peak = 414 FY 90
pg 501 book 214

HP = ~~414~~ (FY90) 414 x .93 = 385

PWL = $\left(\frac{\overset{279}{\cancel{300}} + \overset{293}{\cancel{315}}}{2}\right)(.72) = \cancel{221.4}$ 206

PAX

FACILITY/CAPABILITY: Helicopter Mission System Support Center

TEST FACILITY CATEGORY: IL Page 417 Book 214

% T&E - OVERALL: 80

AV: 80

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 10 Page 424

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .8 x 3900 = 3120 FY93 .8 x 4000 = 3200 Page 417 + 423

EC: FY92 FY93

A/W: FY92 FY93

$Au\% = \frac{80}{80+10+10} = .8$ Page 417

Historical Peak = .8 x 6100 = 4880 (FY89) Page 423

Peak Workload = $\left(\frac{3120+3200}{2}\right) \times .72 = 2,275$

FACILITY/CAPABILITY: (PAX) HELICOPTER MISSION SYSTEMS SUPPORT CENTER

TEST FACILITY CATEGORY: IL

% T&E - OVERALL: 80 REF DRT

AV: 80 REF DRT => 80%

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 10 REF DRT

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 3900 REF DRT FY93 4000 REF DRT

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

= .8 x 3900 = 3120 DRT = .8 x 4000 = 3200 DRT

peak = 6100 FY 89
pg 423 book 214

HP = ~~6100~~ (FY89) 6100 x .8 = 4880 DRT

PWL = $\left(\frac{\cancel{3900}\ 3120 + \cancel{4000}\ 3200}{2}\right)(.72) = \cancel{2,844}$ 2,275 DRT

PAX

FACILITY/CAPABILITY: Air Craft Electrical Evaluation Fac (AEEF)

TEST FACILITY CATEGORY: HITL Page 562 Book 214

% T&E - OVERALL: 90

AV: 90

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .9 x 70,080 = 63,072 FY93 .9 x 70,080 = 63,072 Page 562 + 567

EC: FY92 FY93

A/W: FY92 FY93

$AV\% = \frac{90}{90+5+5} = .9$ Page 562

Historical Peak = .9 x 70,080 = 63,072 (FY93) Page 562 + 567

Peak Workload = $\left(\frac{63,072 + 63,072}{2}\right) \times .72 = 45,412$

PAX

FACILITY/CAPABILITY: AIRCRAFT ELECTRICAL EVALUATION (AEEF)

TEST FACILITY CATEGORY: H ITL

% T&E - OVERALL: 90 DRS

AV: 90 DRS => 90%

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 49 DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 70,080 DRS * FY93 70,080 DRS *

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

= 70,080 x .9 = 63072 DRS = 70,080 x .9 = 63072 DRS

peak = 70,080 FY93
pg 567 book 214

* NOTE DIRECT LAISUR HOURS ARE LESS THAN TEST HOURS. HOWEVER UNCONSTRAINED CAPACITY SHOWS TYPICAL TEST HOUR REQUIRES 2-3 HOURS OF DIRECT LABOR.

HP = ~~70,050~~ (FY93) 70,080 x .9 = 63072 DRS

PWL = $\left(\frac{\overset{63072}{\cancel{70,050}} + \overset{63072}{\cancel{70,050}}}{2}\right)(.72) = \overset{45,412}{\cancel{50,457.6}}$ DRS

PAX

FACILITY/CAPABILITY: Aircrew System Test Facility

TEST FACILITY CATEGORY: HITL Page 574 Book 214

% T&E - OVERALL: 60

AV: 60

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 12 Page 581

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .6 x 16,540 = 9924 FY93 .6 x 16848 = 10,109 Page 574 + 580

EC: FY92 FY93

A/W: FY92 FY93

$Av\% = \frac{60}{60+40} = .6$ Page 574

Historical Peak = .6 x 17,850 = 10,710 (FY89) Page 574 + 580

Peak Workload = $\left(\frac{9924 + 10,109}{2}\right) \times .72 = 7,212$

PAX

FACILITY/CAPABILITY: AIRCREW SYSTEMS TEST FACILITY

TEST FACILITY CATEGORY: HITL

% T&E - OVERALL: 60 RSP DRS

AV: 60 RSP DRS ⇒ 60%

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 12 RSP DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 16540 RSP DRS FY93 16848 RSP DRS

EC: FY92 FY93

A/W: FY92 FY93

= .6 x 16540 = 9924 A = .6 x 16848 = ~~10,1~~ 10,109 A

peak = 17,850 FY 89
pg 580 book 214

HP = ~~17,850~~ (FY 89) 17,850 x .6 = 10,710 A

PWL = $\left(\frac{\cancel{16540}\ 9924 + \cancel{16848}\ 10,109}{2}\right)(.72) = \cancel{12,019.68}\ 7212$

PAX

FACILITY/CAPABILITY: Aircraft Stores Certification Test Facility

TEST FACILITY CATEGORY: HITL Page 586 Book 214

% T&E - OVERALL: 100

AV: 100

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8 Page 593

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 9300 FY93 9300 Page 586 + 592

EC: FY92 FY93

A/W: FY92 FY93

Av % = $\frac{100}{100}$ = 1 Page 586

Historical Peak = 9300 (FY93) Page 592 + Page 586

Peak Workload = $\left(\frac{9300 + 9300}{2}\right) \times .72 = 6,696$

PAX

FACILITY/CAPABILITY: AIRCRAFT STORES CERTIFICATION TEST

TEST FACILITY CATEGORY: ~~100~~ HITL

% T&E - OVERALL: 100 PS DRT

AV: 100 PS DRT

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8 PS DRT

HISTORICAL WORKLOAD (TEST HOURS)

AV:	FY92 9300 PS DRT	FY93 9300 PS DRT	
EC:	FY92 _____	FY93 _____	
A/W:	FY92 _____	FY93 _____	

peak = 9300 FY93
pg 592 book 214

HP = 9300 (FY93)

$$PWL = \left(\frac{9300 + 9300}{2}\right)(.72) = 6,696$$

PAX

FACILITY/CAPABILITY: FLIGHT CONTROL Computer TEST FAC.

TEST FACILITY CATEGORY: HITL Page 598 Book 214

% T&E - OVERALL: 100

AV: 100

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 30 Page 604

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1460 FY93 1460 Page 598 + 603

EC: FY92 FY93

A/W: FY92 FY93

$Av\% = \frac{100}{100} = 1$ Page 598

Historical Peak = 1460 (FY93) Page 603

Peak workload = $\left(\frac{1460 + 1460}{2}\right) \times .72 = 1051.2$

PAX

FACILITY/CAPABILITY: FLIGHT CONTROL COMPUTER TEST

TEST FACILITY CATEGORY: HITL

% T&E - OVERALL: 100 RST DRS

AV: 100 RST DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 30 RST DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV:	FY92 1460 RST DRS	FY93 1460 RST DRS	
EC:	FY92 _____	FY93 _____	
A/W:	FY92 _____	FY93 _____	

peak = 1460 FY93
pg 603 book 214

*NOTE: WORKLOAD PER ~~FACILITY~~ TEST HOUR IS AROUND 3 HRS LABOR / HOUR TEST. FOR 92-93 HISTORICAL WORKLOAD SHOWS DIRECT / TEST RATIO IS ~~[illegible]~~ ABOUT 90 HRS / TEST HOUR A FACTOR OF 30 DIFFERENCE.

HP = 1460 (FY93)

$$PWL = \left(\frac{1460 + 1460}{2}\right)(.72) = 1,051.2$$

PAX

FACILITY/CAPABILITY: INTEGRATED AIRCRAFT TEST LABS (IATL)

TEST FACILITY CATEGORY: HITL Page 607 Book 214

% T&E - OVERALL: 100 RCC DRS

AV: 100 RCC DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 3 RCC DRS

HISTORICAL WORKLOAD (TEST HOURS) Page 613 + 607

AV: FY92 2703 RCC DRS FY93 4343 RCC DRS

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

peak = 4343 FY93
pg 613 book 214

$Av\% = \frac{100}{100} = 1$ Page 607

HP = 4343 (FY93) Page 613

$PWL = \left(\frac{2703 + 4343}{2}\right)(.72) = 2,536.56$

PAX

FACILITY/CAPABILITY: Aircraft Support System Test

TEST FACILITY CATEGORY: HITL Page 616 Book 214

% T&E - OVERALL: 90

AV: 90

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 45

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .9 x 82,762 = 74,486 FY93 .9 x 69,494 = 62,545 Page 616 + 620

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

$Av\% = \frac{90}{90+575} = .9$ Page 616

Historical Peak = .9 x 82,762 = 74,486 (FY92) Page 616 + 621

Peak Workload = $\left(\frac{74,486 + 62,545}{2}\right) \times .72 = 49,331$

PAX

FACILITY/CAPABILITY: AIRCRAFT SUPPORT SYSTEMS TEST

TEST FACILITY CATEGORY: HITL

% T&E - OVERALL: 90 RSL DCT

AV: 90 RSL DCT ~~DC~~ ⇒ 90%

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 45 RSL DCT ~~DC~~

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 82762 RSL DCT ~~DC~~ FY93 69494 RSL DCT ~~DC~~

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

= .9 × 82762 = 74,486 DCT

= .9 × 69494 = 62545 DCT

peak = 82,762 FY92
pg 621 Govt 214

HP = ~~82 762~~ (FY92) 82,762 × .9 = 74,486 DCT

PWL = $\left(\frac{\overset{74,486}{\cancel{82\,762}} + \overset{62,545}{\cancel{69\,494}}}{2}\right)(.72) = \cancel{54,812.16}$ 49,331 DCT

PAX

FACILITY/CAPABILITY: Air Combat Environment T&E Fac (ACETEF)

TEST FACILITY CATEGORY: 1STF Page 624 Book 214

% T&E - OVERALL: 77

AV: 41

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 55

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .66 x 18,815 = 12,418 FY93 .66 x 21,393 = 14,119 Page 624 + 639

EC: FY92 FY93

A/W: FY92 FY93

$$Av\ \% = \frac{41}{41+1+14+2+3+1} = .66$$ Page 624

Historical Peak = .66 x 21,393 = 14,119 (FY93) Page 624 + 639

$$\text{Peak Workload} = \left(\frac{12,418 + 14,119}{2}\right) \times .72 = 9,553$$

PAX

FACILITY/CAPABILITY: AIR COMBAT ENVIRONMENT TEST & EVAL FAC (ACETEF)

TEST FACILITY CATEGORY: 1STF

% T&E - OVERALL: 77 RED DRT

AV: 41 RED DRT ~~Gr~~ => 66%

EC: 26 ~~Gr~~

A/W: 8 ~~Gr~~

OTHER 2 ~~Gr~~

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 55 RED DRT ~~Gr~~

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 18815 RED DRT FY93 21393 RED DRT

EC: FY92 4293 FY93 ~~4192~~

A/W: FY92 803 FY93 931

= .66 X 18,815 = 12,418 RED

= .66 X 21393 = 14119 RED

peak = 21,393 FY93
pg 639 book 214

HP = ~~21393~~ (FY 93) 21,393 X .66 = 14,119 RED

PWL = $\left(\frac{\overset{12,418}{\cancel{18815}} + \overset{14,119}{\cancel{21393}}}{2}\right)(.72) = \cancel{14,474.55}$ 9,553 RED

FACILITY/CAPABILITY: CHESAPEAKE TEST RANGE

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL:

AV: .85/.95

EC:

A/W:

By AW-093 100% of Reported hours [redacted] were T+E
Therefore % AV = .85/.95
Page 652 Book 214

~~NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5)~~: PEAK (FY89) = 12246 ***

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 = 10992 * FY93 = 10289 **

EC: FY92 FY93

A/W: FY92 FY93

$$PWL = \left(\frac{10992 + 10289}{2}\right) \times 1.7 = 7661$$

$$* \; AV{:}FY92 = FY93^{\#}_{TOTAL} \times \frac{HANGAR\ TEST\ (FY92)^{\#\#}}{HANGAR\ TEST\ (FY93)} \times \%\ T\&E\ AV$$

$$= 11500 \times \frac{12890}{12066} \times .85/.95 = 10992$$

JCSWG decision to use Hangar Ratio to get 92 + Peak year Hours. make calculation rather than issue RFC because of Time Constraint.

$$** \; AV{:}\ FY93 = FY93^{\#}_{TOTAL} \times \%\ T\&E\ AV = 11500 \times .85/.95 = 10289$$

$$*** \; PEAK\ (FY89) = FY93^{*}_{TOTAL} \times \frac{HANGAR\ TEST\ PEAK\ (FY89)^{\#\#}}{HANGAR\ TEST\ (FY93)} \times \%\ T\&E\ AV$$

$$= 11500 \times \frac{14360}{12066} \times .85/.95 = 12246$$

REFERENCE RFC AW-093 ## REFERENCE BOOK 214 pgs 739, 743

PAX

FACILITY/CAPABILITY: Surveillance & Topographical Analysis Radar Lab. (STARS)

TEST FACILITY CATEGORY: MF Page 555 Book 214

% T&E - OVERALL: 80 RFC AV-016

AV: 80

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 Page 560

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .84 x 550 = 462 FY93 .84 x 600 = 504 Page 555 + Page 559 RFC AV-016

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

Air Vehicle % = $\frac{80}{80+5+5+5} = \frac{80}{95} = .84$ Page 555

Historical Peak = .84 x 600 = 504 (FY93) Page 559 + RFC AV-016

Peak Workload = $\left(\frac{462+504}{2}\right) \times .72 = 348$

PAX

• RFC

FACILITY/CAPABILITY: SURVEILLANCE & TOPOGRAPHICAL ANALYSIS RAD SYSTEM (STARS)

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 80 RFC DRS

AV: 80 ~~75~~ RFC DRS *

EC: ~~50~~

A/W:

RFC AV-16 Certified data

84%

P 555 Book 214

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 RFC DRS

Page 560

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~250~~ 462 ~~550~~ DRS * RFC DRS Page 559

EC: FY92 ~~250~~ 0

A/W: FY92 ~~50~~ 0

FY93 ~~250~~ * RFC DRS

FY93 ~~300~~ 0

FY93 ~~50~~ 0

~~600~~ 504 DRS

RFC AV-16 Certified data updates

= .84 x 550 = 462

= .84 x 600 = 504

$\frac{80}{(80+5+5+5)} = \frac{80}{95}$ P 555

* NOTE: HISTORICAL WORKLOAD FOR EC IS SUBSTANTIALLY MORE THAN FOR AIRVEHICLES BUT AIRVEHICLE PERCENTAGE IS 15 TIMES THE EC PERCENTAGE

HP = ~~600~~ (FY93) 600 x .84 = 504 DRS

PWL = $\left(\frac{\overset{462}{\cancel{550}} + \overset{504}{\cancel{600}}}{2}\right)(.72) = \cancel{414}$ 348 DRS

peak = 600 FY93 P 559 book 214 RFC 016

Document Separator

FACILITY/CAPABILITY: Environmental Test Complex

TEST FACILITY CATEGORY: MF Page 336 Book 204A

% T&E - OVERALL: 60

AV: 6

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 40

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 $732 \times \frac{6}{10} = 439.2$ FY93 $613 \times 6/10 = 367.8$ Page 338A + Page 336 Book 204A

EC: FY92 FY93

A/W: FY92 FY93

$^{*}Av\% = \frac{6}{6+3+1} = .6$ Page 204A

Peak 1929 (FY89) Page 338A Book 204A

$.6 \times 1929 = 1157.4$

$\left(439 + \frac{368}{2}\right) \times .72 = 291$

* HISTORIC WORKLOAD IS A MIXTURE OF T&E, S&T, etc. reference last paragraph on pg. 0011A, book 204.B or RFC AW-009

CHINA LAKE

FACILITY/CAPABILITY: IR SEEKER, GCS DDT&E COMPLEX

TEST FACILITY CATEGORY: MF Page 372 Book 204A

% T&E - OVERALL:

AV: 10/11

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 10/11 * 2352 = 2138 FY93 10/11 * 2352 = 2138 Page 372 + 374

EC: FY92 FY93

A/W: FY92 FY93

$Av\,\eta_0 = \frac{10}{10+1} = \frac{10}{11}$ Page 372

$Pwr = \left(\frac{2138+2138}{2}\right) \times .72 = 1539$

Peak (FY93) = 10/11 * 2352

= 2138

pg 374 book 204A

and RFC AW-009

Document Separator

NAWCWPNS PT MUGU

FACILITY/CAPABILITY: SEA LEVEL CLIMATIC CHAMBER

TEST FACILITY CATEGORY: MF Page 240 Book 216

% T&E - OVERALL: 90%

AV: 40%

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 Page 243

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 $40/44 * 365 = 332$ FY93 $40/44 * 633 = 575$ Page 240 + 242

EC: FY92 FY93

A/W: FY92 FY93

* $Av\% = \frac{40}{40+2+2} = \frac{40}{44}$

peak $= 40/44 * 633$ (FY93)
$= 575$
Page 240+242

* reference memo dated 09/23/94 11:12AM

$(332 + 575)/2 + 72 = 327$

Rwl

FACILITY/CAPABILITY: Sea Test Range

TEST FACILITY CATEGORY: OAR Page 412 Book 216

% T&E - OVERALL: 82.4

AV: 16.4

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 4

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 2,488 FY93 2,177 Page 424A +

EC: FY92 FY93

A/W: FY92 FY93

Av % Sea test range are all T+E. No need to multiply hours by %. Reference RFC AW-062

Historical Peak = 4787 (FY87) Page 424A

~~Peak~~ Projected WORKLOAD = $\left(\frac{2488+2177}{2}\right) \times .72 = 1679$

Pr MUGU

FACILITY/CAPABILITY: SEA TEST RANGE NAWCWPNS

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL: 82.4

AV: 16.4 ⇒ 100%

EC: 0.8

A/W: 33.0

OTHER 32.2

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 4 AEX

HISTORICAL WORKLOAD (TEST HOURS)

~~408~~ ~~357~~ 9/14/94

AV: FY92 ~~2,488~~ FY93 ~~2,177~~

EC: FY92 70 FY93 105

A/W: FY92 5817 FY93 5483

2,488 DRS 10-4-94

2,177 DRS 10-4-94

Sea test range hours are all T&E. No need to multiply by % on General Info Form. (Reference RFC) DJD 9/20/94

peak = 4787 DRS 10-4-94 FY87

pg 424 book 216

DRS 10-4-94 Pwk: $\left(\frac{2488 + 2177}{2}\right) \times .72 = 1679$

Document Separator

FACILITY/CAPABILITY: ELECTROMAGNETIC VULNERABILITY ASSESSMENT FAC. (EMVAF)

TEST FACILITY CATEGORY: MF

Page 38
Book 207

% T&E - OVERALL: 59

AV: 35

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .97 x 1560 = 1513 FY93 .97 x 1140 = 1106 Page 38 + 42

EC: FY92 FY93

A/W: FY92 FY93

* Av % = $\frac{35}{35 + 1.2} = .97$ Page 38

Historical Peak = .97 x 3450 = 3347 FY87 P. 38 + 42

~~Peak~~ Projected WORKLOAD = $\left(\frac{1513 + 1106}{2}\right) \times .72 = 943$

* % of hours computed per reference AW-037

NSWCDD

FACILITY/CAPABILITY: ELECTROMAG. VULNERABILITY FAC

TEST FACILITY CATEGORY: ~~Elect~~ MF

% T&E - OVERALL: 59 REL

AV: 35 REL

EC: 0

A/W: 24 ⟹ 97%

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8 REL

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~1560~~ 1513 REL

FY93 ~~1140~~ 1106 REL

EC: FY92 0

FY93 0

A/W: FY92 2340

FY93 2660

= .97 × 1560 = 1513

= .97 × ~~1560~~ 1140 = 1106

~~peak = 3450 FY87 pg 42 book 207~~ 10-4-94

~~PWL (1560 + 1140)/2 × .72 = 972~~

HP = 3450 × .97 = 3347

PWL = $\left(\frac{1513 + 1106}{2}\right)(.72) = 943$

Document Separator

~~WAR~~

WARminster

FACILITY/CAPABILITY: Human Cen Tri Fuge / Dynamic Flight Simulator
DM&S

TEST FACILITY CATEGORY: Modeling and Simulation

% T&E - OVERALL: 40 DRS DJD P.42 BOOK 220

AV: 40 DRS DJD

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 DRS DJD P.47

HISTORICAL WORKLOAD (TEST HOURS)

*AV: FY92 1393 DRS P.46 DJD FY93 1393 P.46 DRS DJD

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

* ALL WORKLOAD IN HISTORICAL WORKLOAD TABLE WAS ASSUMED TO BE T&E (100%) BASED UPON THE NUMBER OF DIRECT LABOR HOURS REPORTED FOR FY 91, 92, 93 AS A PERCENTAGE OF THE TOTAL AVAILABLE FACILITY LABOR HOURS DETERMINED FROM THE PERSONNEL LISTING ON THE ADDITIONAL INFORMATION FORM

peak = 1393 FY93 p46 Book 220

PWL = $\left(\frac{1393+1393}{2}\right) \times .72$
= 1003

Document Separator

INDIANAPOLIS

FACILITY/CAPABILITY: PRODUCT QUALITY ASSURANCE & EVALUATION

TEST FACILITY CATEGORY: MF P.10

Page 71

Book 209

% T&E - OVERALL: 54

AV: 20

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

manyears - Page 78

*(AW-089) CONVERSION HOURS

*AV: FY92 13 * 1760* = 22,880 FY93 13 * 1728* = 22464

EC: FY92 FY93

A/W: FY92 FY93

* NOTE: ALL WORKLOAD REPORTED WAS ASSUMED TO BE 100% T&E, BASED ON THE NUMBER OF DIRECT LABOR MANYEARS REPORTED AS A PERCENTAGE OF THE AVAILABLE FACILITY LABOR MANYEARS ~~AS~~ DETERMINED FROM THE PERSONNEL LISTINGS ON THE ADDITIONAL DATA FORMS.

Peak = 13 * 1786 (FY86)

= 23,218

AW-089 + Page 78

RWL (22,880 + 22,464) / 2 x .72 = 16,324

INDIANAPOLIS

FACILITY/CAPABILITY: INTEGRATED AVIONICS LAB

TEST FACILITY CATEGORY: IL Page 109A Book 209

% T&E - OVERALL: 18

AV: 18

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): _____

HISTORICAL WORKLOAD (TEST HOURS) manyears Page 114

AV: FY92 7*1760 = 12320 FY93 7*1728 = 12,096 (AW-089) Conversion hours

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

Peak = 7 * 1786 (FY86)

= 12502

AW-089 + Page 114

Pur $\left(\frac{12,320 + 12,096}{2}\right) \times .72$

= 8790

INDIANAPOLIS

FACILITY/CAPABILITY: TAC AIR POD Laboratory

TEST FACILITY CATEGORY: IL RFC 019 AV + Page 86A Book 209

% T&E - OVERALL: 10

AV: 10

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8

HISTORICAL WORKLOAD (TEST HOURS)

Page 091 manyears = 1
AW - 089 conversion
Hours

AV: FY92 1760 FY93 1728

EC: FY92 FY93

A/W: FY92 FY93

Historical Peak = 1786 (FY86) Page 91 + AW - 089

Projected ~~Peak~~ WORKLOAD = $\left(\frac{1760 + 1728}{2}\right) \times .72 = 1256$

FACILITY/CAPABILITY: TACAIR Pod Laboratory

TEST FACILITY CATEGORY: IL 2FCØM Page 86A Book 209

% T&E - OVERALL: 10 DRS

AV: 10 DRS

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8 DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~2087~~ 1760 DRS DJD ~~N~~ FY93 ~~2087~~ 1728 DRS ~~N~~ DJD

EC: FY92 FY93

A/W: FY92 ~~2087 DRS~~ FY93 ~~2087 DRS~~

1 Man year of Effort

peak = ~~2087~~ 1786 FY 86 ~~DRS~~
~~pg 91 book 209~~
A/W-089

DRS 10-94 PWL

$\left(\frac{2087+2087}{2}\right) \times .72 = 1503$

$\left(\frac{1760+1728}{2}\right) \times .72 = 1256$

Document Separator

Book 306

FACILITY/CAPABILITY: Mc Kinley Climatic @ Eglin AFB

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 100 p62 DRS DJD

AV: 58 p62 DRS DJD

p63 Book 306

EC: 9

A/W: 0

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 6 p62 p60 DJD

HISTORICAL WORKLOAD (TEST HOURS) p59

AV: FY92 6,816 p57 DRS DJD DJD FY93 6,576 p57 DRS DJD D

EC: FY92 4,656 FY93 1,040

A/W: FY92 0 FY93 0

peak = 6816 FY92
pg 59 Book 306

8-17-94

Pwl $\left(\frac{6816+6576}{2}\right) \times .72$

= 4821

Book 306

FACILITY/CAPABILITY: Multi Spectral Sig Msmt @ Eglin AFB

TEST FACILITY CATEGORY: MF

Page 134 Book 306

% T&E - OVERALL: 100 DRS DJD

AV: 8

EC: 7

A/W: 50

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): ~~5 + 8~~ = 13 DRS DJD

P130 131
OS CC

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 4 DRS DJD FY93 245 DRS DJD P. 129

EC: FY92 728 FY93 215

A/W: FY92 1,187 FY93 1,579

$\left(4 + \frac{245}{2}\right) \times 72 = 90$

Pwr

peak = 245 FY93
pg 129 Book 306

Document Separator

EAFB

FACILITY/CAPABILITY: TEST & EVALUATION MISSION SIM

TEST FACILITY CATEGORY: DMS

Page 220 Book 301

% T&E - OVERALL: 20 DRS

(.20 x .99) AV: 19.8% DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 3 REZ DRS DSD

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 362 DRS DSD FY93 388 DRS DSD Page 217

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

* data for peak year (FY88) for test hours included other than test hours (see note 3, pg 218, Book 301). Therefore peak hours were estimated from the nearest year with valid test hour data (FY87) by the formula shown.

$$\text{pk} = \left(\frac{362+388}{2}\right) \times .75 = 270$$

Page 217

$$\text{peak} = \{FY88\}$$

$$= 1,186 * \frac{31,590}{18852}$$

$$= 1987$$

$$*\text{pk} = \text{FY87 TEST} * \frac{\text{FY88 DIRECT}}{\text{FY87 DIRECT}}$$

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: **Test and Evaluation Mission Simulator (TEMS)**

T&E FUNCTIONAL AREA		FISCAL YEAR 86 1	87 2	88 3	89 4	90 5	91 5	92 6	93 6
AIR VEHICLES 8	DIRECT LABOR	23,153	18,852	31,590	6,918	29,177	6,918	11,075	6,870
	TEST HOURS	4,416	1,186	26,332	9,213	608	355	362	388
	MISSIONS 7	8	10	8	9	7	12	4	5
EC	DIRECT LABOR								
	TEST HOURS								
	MISSIONS 7								
ARMAMENT/WEAPONS	DIRECT LABOR							877	
	TEST HOURS								
	MISSIONS 7							1	
OTHER T & E 9	DIRECT LABOR								
	TEST HOURS	Note 1	2,470	Note 3	Note 4	1,013	1,020	740	1,370
	MISSIONS 7								

This is the apparent high year, but test hours includes non-test time.

07/31/94, 10:45 AM

OTHER 10	DIRECT LABOR	16,951	1,653	50,317	23,243	21,061	5,761	6,647	8,037
	TEST HOURS	935	865	2,384	1,051	768	309	213	464
	MISSIONS	2	4	2	2	1	1	1	2

NOTES:

1. Data for FY86 was collected from the Base Operating Report By Cost Center dated 86 OCT 19. The data for test time and for nontest time support could not be separated thus it was all included in test time.
2. Data for FY87 was collected from the MISTE Production Quantity List dated 87 NOV 05
3. Data for FY88 was collected from the Base Operating Report By Cost Center dated 88 OCT 27. The data for test time and for nontest time support could not be separated thus it was all included in test time.
4. Data for FY88 was collected from the Base Operating Report By Cost Center dated 89 OCT 26. The data for test time and for nontest time support could not be separated thus it was all included in test time.
5. Data for FY90 and FY91 was obtained 93 JUL 21 from the JOCAS system. The format does not support the differences in military and civilian labor.
6. Data for FY 92 and FY93 was collected from the Product Resource Summary Report dated 06 JUL 94.
7. Programs" was substituted for "missions." Ground Test and Evaluation consider the number of major programs more relevant than number of missions.
8. Total TEMS data as shown, has been directly charged to the customer. Most of this labor was used to support capability development to support the customer tests, but there is no designation as to what the labor was used for, so it is all recorded here.
9. The labor for these efforts are included in the Air Vehicles Section. The number of programs is also reflected in the Air Vehicles Section, so we do not misrepresent the number of programs supported.
10. The hours and programs represented here are other on base entities that are not charged for simulation use.
11. Test hours for FY 86, 88, 89 for other T&E is folded into Air Vehicles functional area.

FACILITY/CAPABILITY: Human Factors Lab EAFB

TEST FACILITY CATEGORY: MF ? RFC029

Page 303 Book 301

% T&E - OVERALL: 90 DRS P 303

(.9x100) = AV: 90% DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 6 RCC DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1822 DRS FY93 1595 DRS ← RFC AV_028

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

peak = 1822 FY92 RFC AV028

$\left(\frac{1822+1595}{2}\right) \times .72$

$= 1230$

Full

BOOK 301

FACILITY/CAPABILITY: Ground Vibration Facility (GVT / STRUCTURES)

TEST FACILITY CATEGORY: MF RFC029

% T&E - OVERALL: 85% DRS DJD

P.286 BOOK301

AV: ✓ 95% DRS DJD

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 6 P.296 DJD

HISTORICAL WORKLOAD (TEST HOURS)

per AV-027 DJD DRS

AV: FY92 1,570 FY93 1,570 DRS DJD

~~no test hours~~

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

~~RFC~~ RFC AV-027

peak = 1570 FY93 RFC AV027

Per (1570+1570)/2 × .72 = 1130

Scored

~~Excluded~~

EAFB

FACILITY/CAPABILITY: INSTRUMENTED PROPULSION COMPLEX

TEST FACILITY CATEGORY: ? ~~AAP~~ IL RFC 029 Book 301

% T&E - OVERALL: ** 40 DIRS DJD P.336 Book 301

40 x 100% = AV: ~~100~~ 40 DIRS DJD

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 9 DIRS P 341

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 88800 DIRS DJD FY93 88800 DIRS P 339 DJD

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

peak = 110,000 FY 87 pg 339 Book 301

** THIS IS A SUPPORT FACILITY WHICH PROVIDES MAINTENANCE, INCLUDING ACCEPTANCE TESTING OF AIRCRAFT JET ENGINES. IT IS A TEST SUPPORT NOT A TEST FACILITY.

DJD Disagree. Troubleshooting of wide variety of aircraft is important part of T&E infrastructure, see also its answer to 2.3.B.2.

DWV (88,800 + 88,800) x .72 Part = 63,936

EAFB

FACILITY/CAPABILITY: IFAST

TEST FACILITY CATEGORY: IL

Book 301

% T&E - OVERALL: 90 RSL DRS DJD p 465

.9 x .89 = AV: 80.1% RSL DRS DJD

EC: 9

A/W: 0

OTHER 0.9

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 7 RSL DRS DJD p.467

HISTORICAL WORKLOAD (TEST HOURS) p 462

AV: FY92 ~~8552~~ 8352 RSL DRS DJD p462 FY93 7061 RSL DRS DJD

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

peak = 8999 FY91

pg 462 Book 301

(8352 + 7061) x .72 / 2 = ~~5475~~ 5549

RWL

(2)

Book 302 Jeanblanc

FACILITY/CAPABILITY: BAF + ECIT @ Edwards

TEST FACILITY CATEGORY: ISTF

Page 35 Book 302

% T&E - OVERALL: 90 DRS DOD

AV: 63 x .90 = 56.7% REP DRS DOD

EC: 25

A/W: 1

other 11

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 DOD REP DRS

HISTORICAL WORKLOAD (TEST HOURS)

P.36

AV: FY92	51 REP DRS DOD	FY93	286 REP DRS DOD
EC: FY92	0	FY93	99
A/W: FY92	0	FY93	46

peak = 1968 FY90
pg 36 book 302

PWL $\left(\frac{51+286}{2}\right) \times .72$
= 121

FACILITY/CAPABILITY: EDWARDS FLIGHT TEST CENTER

TEST FACILITY CATEGORY: OAR RFC AV-060

% T&E - OVERALL: 100

AV: 90 Page 203 Book 301

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 41 P. 196

HISTORICAL WORKLOAD (TEST HOURS)

*AV: FY92 .90 x 11,182 = 10,064 FY93 .90 x 12,222 = 11,000 RFC AV-60 + Page 203

EC: FY92 FY93

A/W: FY92 FY93

* WORKLOAD (TEST FLYING HOURS) REPORTED IN AV-060 (100% T&E) ~~FOR AVE~~ INCLUDED ALL T&E CATEGORIES. THEREFORE IT WAS NECESSARY TO MULTIPLY THE TOTAL T&E FLYING HOURS REPORTED BY THE PERCENTAGE OF AIRVEHICLE T&E TESTING ie 90% FROM THE GENERAL INFORMATION FORM (pg 203 BOOK 301)

HISTORICAL Peak = .90 x 13,331 = 11,998 (FY90) RFC-AV-060

Projected Workload = $\left(\frac{10,064 + 11,000}{2}\right) \times .72 = 7583$

Book 301

FACILITY/CAPABILITY: Edwards Flight Test Center

TEST FACILITY CATEGORY: OAR ; RFC AV060

% T&E - OVERALL: 93.8 P203

Book 301

AV: 90 P203

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 41 P196 DRS

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 ~~19,707~~ .90 x 11,182 = 10,064 FY93 ~~20,479~~ .90 x 12222 = 11,000 ← RFC AV060

EC: FY92 _____ FY93 _____

A/W: FY92 ~~35,42 19,707~~ FY93 ~~5024 20,479~~

PWL = $\left(\frac{10,064 + 11,000}{2}\right)(.72) = 7583$

peak = (FY90) .90 x 13331 = 11,998

RFC AV-060

Document Separator

Book 304 + 302

FACILITY/CAPABILITY: UTTR OAR

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL: 57.5 } RFC -AV-058

AV: 52

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): _____

HISTORICAL WORKLOAD (TEST HOURS) RFC AV-061

* AV: FY92 $\frac{.52}{.575} * 2222 = \boxed{2009}$ FY93 $\frac{.52}{.575} * 3737 = \boxed{3380}$

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

AV % $\frac{.52}{.575}$ all workload T+E AV.058

peak $= \frac{.52}{.575} * 3737 = \boxed{3380}$ (FY93)

$PWL = \left(\frac{2009 + 3380}{2}\right) \times .72 = 1940$

* WORKLOAD REPORTED IN AV-061 WAS 100% TEST AND INCLUDED ALL T&E CATEGORIES. THEREFORE IT WAS NECESSARY TO MULTIPLY THE TOTAL TEST HOURS BY THE PERCENTAGE OF AIRVEHICLE TESTING (ie. % = 52/(52 + 3.8 + 1.7)) FROM RFC AV-058.

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BOOK 305

FACILITY/CAPABILITY: AIR BREATHING ENGINE, AEDC

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 51 (p.68)

AV: 51 (p.68)

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 (p.69)

HISTORICAL WORKLOAD (TEST HOURS) (p.66)

AV: FY92 .51 x 830 = 423 FY93 .51 x 1630 = 831

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

$$AV\% = \frac{51}{51+1+39+2+0+7} = .51^{*}$$

Historical Peak = .51 x 2312 (FY88) = 1179 (p.66)

$$\text{Projected Workload} = \left(\frac{423+831}{2}\right) \times .72 = 451$$

* reference CONVERSATION record 09/30/94 @ 1605 WITH AEDC SUBJ: WORKLOAD

CONVERSATION RECORD

TIME: 1605 | DATE: 9/30/94

TYPE: ☐ VISIT ☐ CONFERENCE ☒ TELEPHONE ☒ INCOMING ☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU	ORGANIZATION (Office, dept., bureau, etc.)	TELEPHONE NO.
CARLOS TIRRES	AEDC	615/454-4352

SUBJECT: WORKLOAD

ROUTING	
NAME/SYMBOL	INT

SUMMARY

QUESTION: Are the test hours on the historical workload form 100% T&E or are they a mixture of T&E, S&T, DE, etc as noted on the General Information Form.

ANSWER: Mixture, ~~if so~~ UNLESS OTHERWISE indicated on General Information form

ARMY TKR
NAVY

ACTION REQUIRED

No RFC required — adjust T&E test hours per above

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
SHARON L. BROOKS	Sharon Lea Brooks	9/30/94

ACTION TAKEN

SIGNATURE	TITLE	DATE

Book 305

AEDC

FACILITY/CAPABILITY: Air Breathing Engine, Edwards

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 51 per DRS p 64

AV: 51 per DRS

EC: 0

A/W: 0

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 per DRS p 69

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .51 x 830 per DRS = 423 FY93 .51 x 1630 per DRS = 831 p 66

EC: FY92 0 FY93 0

A/W: FY92 0 FY93 0

$$Av\% = \frac{51}{51+1+39+2+0+7} = .51$$

peak = .51 x 2312 (FY 88) = 1179 pg 66 book 305

~~PWL $\left(\frac{830+1630}{2}\right) \times .72 = 885.6$~~

PWL $\frac{423 + 831}{2} \times .72$

BOOK 305

FACILITY/CAPABILITY: PROPULSION WIND TUNNEL AEDC

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 46 (p 114)

AV: 36 (p 114)

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2

HISTORICAL WORKLOAD (TEST HOURS) (p. 112)

AV: FY92 $36/76 \times 5496 = 2603$ FY93 $36/76 \times 6924 = 3280$

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

$$AV\% = \frac{36}{36+40} = 36/76^{*}$$

$$\text{Historical Peak} = 36/76 \times 7675 \text{ (FY89)} = 3636 \text{ (p.112)}$$

$$\text{Projected Workload} = \left(\frac{2603 + 3280}{2}\right) \times .72 = 2118$$

* reference conversation record 09/30/94 @ 1605 with AEDC

Book 305

FACILITY/CAPABILITY: Propulsion Wind Tunnel, Edwards

TEST FACILITY CATEGORY: ~~Propulsion Wind~~ Tu measurement

% T&E - OVERALL: 46 Rest DJD DRS p114

AV: 36 Rest DJD DRS

EC: 0

A/W: 10

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 2 Rest p113 DRT DJD

HISTORICAL WORKLOAD (TEST HOURS) = 3280

AV: FY92 ~~36~~ 5496 Rest DJD = 2603 FY93 ~~36~~ 6924 Rest DJD DRS p112

EC: FY92 0 FY93 0

A/W: FY92 3867 FY93 2427

peak = ~~36~~ 7675 FY89
= 3636 pg 112 book 305

PWL ~~$\left(\frac{5496 + 6924}{2}\right) \times .72$~~
~~= 4471.~~

$$PWL = \left(\frac{2603 + 3280}{2}\right) \times .72 = 2116$$

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BOOK 312

FACILITY/CAPABILITY: CIGTF HOLLOMAN

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 100 (p.24)

AV: 78.6 (p.24)

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 52 (p.22)

HISTORICAL WORKLOAD (TEST HOURS) (p.21)

AV: FY92 42,200 FY93 33800

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

HISTORICAL PEAK = 42,200 (FY92) p(21)

Projected WORKLOAD = $\left(\frac{42200 + 33800}{2}\right) \times .72 = 27360$

BOOK 312

FACILITY/CAPABILITY: HIGH SPEED SLED TRACK HOLLOMAN

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 100 (p.72)

AV: 16.8 (p.72)

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 1 (p.70)

HISTORICAL WORKLOAD (TEST HOURS) (p.69)

AV: FY92 256 FY93 216

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

HISTORICAL PEAK = 614 (FY90) (p.69)

Projected WORKLOAD $= \left(\frac{256+216}{2}\right) \times .72 = 170$

BOOK # 312

FACILITY/CAPABILITY:	CIGTF @ Holloman AFB	High Speed Sled Track
TEST FACILITY CATEGORY:	MF	MF
% T&E - OVERALL:	100 p24 DRS DJD	100 p24 DRS DJD
AV:	78.6 p24 DRS DJD	16.8 p25 DRS DJD p72
EC:	5.6	4.5
A/W:	11.2	61.1
NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):	52 DJD p32 p22	1 p24 DJD p79
HISTORICAL WORKLOAD (TEST HOURS) p21		
AV: FY92	42,200 p24 DRS DJD	256 p24 DRS p69
AV: FY93	33,800 p24 DRS DJD	216 p24 DRS VN
EC: FY92	0	100
EC: FY93	2,400	58
A/W: FY92	5,000	660
A/W: FY93	4,800	787

PWL $\left(\frac{42,200 + 33,800}{2}\right) \times .72 = 27360$

CIGTF
peak = 42,200 FY92
pg 21 book 312

PWL $\left(\frac{256 + 216}{2}\right) \times .72 = 169.92$

HIGH SPEED TEST TRACK
peak = 614 FY90
pg 69 book 312

Document Separator

FACILITY/CAPABILITY: RADAR TEST TYNDALL AFB

TEST FACILITY CATEGORY: HITL

% T&E - OVERALL: 86% DRS p. 132

Book 313

AV: 86% DRS DJD

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 3 DRS p. 129 DJD

HISTORICAL WORKLOAD (TEST HOURS)

**AV: FY92 2683* DRS DJD p. 135 FY93 2683* DRS DJD

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

* CALCULATED AS 2964 x .86 / .95 ref page 135

**% AV workload is .86 / (.86 + .05 + .04)

peak = 2683 FY93 pg 135 book 313

(2683 + 2683) x .72 / 2 = 1932

PWV

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FACILITY/CAPABILITY: ATTC FT RUCKER

TEST FACILITY CATEGORY: OAR Page 144 Book 101

% T&E - OVERALL: 100% REZ DRS

AV: 100% REZ DRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 16 REZ DRS Page 153

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 5305 REZ DRS FY93 5183 REZ DRS P. 152

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

$\left(\frac{5305 + 5183}{2}\right) \times 72 = 3776$

peak = 12,050 FY 86
pg 152 book 101

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FACILITY/CAPABILITY: AQTD EDWARDS AFB

TEST FACILITY CATEGORY: OAR Page 181 Book 101

% T&E - OVERALL: 100 RED DIRS

AV: 100 RED DIRS

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 8 RED DIRS P. 195

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 1768 RED DIRS FY93 1726 RED DIRS P. 193

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

Avg $\left(\frac{1768+1726}{2}\right) \times .72 = 1257.8$

peak = 2626 FY 90
pg 193 book 101

Document Separator

Book #104

FACILITY/CAPABILITY: Environmental Simulation - YPG

TEST FACILITY CATEGORY: m F

% T&E - OVERALL: 100 REQ p 86

AV: 15 REQ

EC: 0

A/W: 85

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 39 REQ p 90

HISTORICAL WORKLOAD (TEST HOURS) p 91

AV: FY92 179 REQ FY93 184 REQ *

EC: FY92 0 FY93 0

A/W: FY92 2073 FY93 1850

peak = 297 FY90 ~~pg 91~~ book 104

* NOTE: "TYPICAL" TEST (p 98) SHOWS 18 HRS / TEST HOUR RATIO OF HISTORICAL WORKLOAD LABOR HRS / TEST HRS (p 91) FOR LAST FOUR FISCAL YEARS IS ABOUT 87:1 A FACTOR OF ALMOST FIVE DIFFERENCE *

AVE $\left(\frac{179+184}{2}\right) \times .72 = 130.7$

Book #104

FACILITY/CAPABILITY: Aircraft Weapons Integration Range, NPC

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL: 100 RZ

AV: 78 RZ

EC: 0

A/W: 22

p 50

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 7 RZ p16 (REVISION)

HISTORICAL WORKLOAD (TEST HOURS) p 54

AV:	FY92 5544 RZ	FY93 3197 RZ	
EC:	FY92 ~~1802~~ 0	FY93 0	
A/W:	FY92 1802	FY93 900	

peak = 5544 FY 92 pg 54 book 104

NOTE: THIS SET OF RANGES IS DISTINCT FROM THE AIRVEHICLE/GENERAL SUPPORT RANGES SHOWN ON THE FOLLOWING SHEET

PWL $\left(\frac{5544+3197}{2}\right) \times .72 = 3147$

Book #104

FACILITY/CAPABILITY: Air vehicle/General Support

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL: 100 PEZ

NOTE: THESE ADD TO 101%

AV: 34 p62

EC: 0

A/W: 17

OTHER 50

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 9 PEZ p18

HISTORICAL WORKLOAD (TEST HOURS) p66

AV: FY92 484 PEZ FY93 230 PEZ

EC: FY92 0 FY93 0

A/W: FY92 250 FY93 114

peak = 484 FY92
pg 66 book 104

PWL $\left(\frac{484+230}{2}\right) \times .72 = 257$

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Book #103

EPG

FACILITY/CAPABILITY: AVIONICS / GPS TEST

TEST FACILITY CATEGORY: MF (RFC AV008)

% T&E - OVERALL: 85 } pg 273

AV: 10

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

RFC AV-059

AV: FY92 2129 × 10% = 213 FY93 ~~1946~~ 1946 × 10% = 195 peak = 3925 (FY89) × 10% = 393

EC: FY92 FY93

A/W: FY92 FY93

Should

Avg ((2129 + 1946)/2 × .72 = 1467 × 10% = 147

EPG

9/29/94

FACILITY/CAPABILITY: ENVIRONMENTAL TEST FACILITY

TEST FACILITY CATEGORY: MF

% T&E - OVERALL: 96 DRS

AV: 12 DRS

RFC EC007

EC: _____

A/W: _____

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5): 105 pg 17 book #102

HISTORICAL WORKLOAD (TEST HOURS) RFC EC007 PARAGRAPH 2.

AV: FY92 .12 x 1071 = 128.5 DRS FY93 .12 x 2030 = 243.6 DRS RFC EC-007

EC: FY92 _____ FY93 _____

A/W: FY92 _____ FY93 _____

NOTE: FACILITY HOURS REPORTED ONLY FOR FY92, FY93; PEAK HOURS ESTIMATED BY FORMULA SHOWN BELOW.

$$\text{peak}^{DRS} = \frac{\text{FY92 TEST HRS} + \text{FY93 TEST HRS}}{\text{FY92 DIRECT LABOR} + \text{FY93 DIRECT LABOR}} * \text{PEAK DIRECT LAB}$$

peak DL = 5719 in FY 89 DRS

$$\text{peak} = \frac{128.5 + 243.6}{619 + 647} * 5719 = \boxed{1681}^{DRS}$$

RFC EC007

EPG 7/29/94

FACILITY/CAPABILITY: INSTRUMENTED TEST RANGE

TEST FACILITY CATEGORY: OAR

% T&E - OVERALL: 100 } EC-08

AV: 24

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .24 x 2369 = 569 FY93 .24 x 835 = 200 EC 08

EC: FY92 FY93

A/W: FY92 FY93

peak = 2692 x .24 = 646 DRJ

in FY90 RFC EC-08 EC-8

PWL = (569 + 200 / 2) x .72 = 277

EPG

9/29/94

FACILITY/CAPABILITY: RANGE OPERATIONS

TEST FACILITY CATEGORY: ~~CAR~~ MF {EC Ø12}

% T&E - OVERALL: 99 } EC Ø1Ø DRS

AV: 21

EC:

A/W:

NUMBER OF TESTS AT ONE TIME (SUM OF COLUMN 5):

HISTORICAL WORKLOAD (TEST HOURS)

AV: FY92 .21 x 827 = 174 DRS FY93 .21 x 719 = 151 DRT EC Ø1Ø

EC: FY92 FY93

A/W: FY92 FY93

peak = 3735 x .21 = 784 DRS
in FY 86
RFC EC-Ø10

PwL $\left(\frac{174+151}{2}\right) \times .72 = 117$

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SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: AQTD - Edwards

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores: Army	Scores: Navy	Scores: AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					3,220
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					Ø
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)				RFC 040	14,300 ~~19,210~~
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					47,847
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					Ø
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)				RFC 001	156
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					100,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)				RFC 001	244

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					Ø.
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					Yes
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)					Yes
d. Swamp or riverine					No
e. Desert					Yes
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					98.6 %

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 313,000 b. 16,070,000 c. 18,028,120 d. 20,849,920
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					~~Yes~~ NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					NO
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					Yes
b. rotary wing?					Yes
c. unmanned?					yes
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					4
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					14,995
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					213,444
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				RFC 049	72,64
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: ATTC - Ft. Rucker

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores			Official
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					43,440
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					∅
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					20
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					15,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					43,440
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					∅
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					105
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					No
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					∅
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					∅

SCORING FORM FOR AIR VEHICLE
(Continued)

Official

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores		
		Army	Navy	AF
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					ϕ
Remarks				

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					NO
b. Forested or jungle					yes
c. Cultivated lowland (farmland)					yes
d. Swamp or riverine					yes
e. Desert					NO
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					88.2%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					95.6% ~~91%~~
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 395,214 b. 1,929,903 c. 3,881,744 d. 9,062,010
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					NO
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					Yes
b. rotary wing?					Yes
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					2
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					5,000
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)				RFC 039	150,000
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				RFC 049	79,835 ~~71,700~~
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					No
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Yuma Proving Ground

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores Army	Scores Navy	Scores AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					1,310
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					ϕ
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					~~1,775~~ 1903
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					1,903
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					ϕ
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					56
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					NO
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					ϕ
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					ϕ

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					ϕ
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					Yes
b. Forested or jungle					NO
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					yes
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					98.6%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					~~92%~~ ~~99.0~~ 98%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 200,000 b. 350,000 c. 500,000 d. 4,500,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					NO
a. fixed wing?					Yes
b. rotary wing?					Yes
c. unmanned?					NO
d. cruise missile?					
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					3
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					6,000
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					359,000
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				REC 050	79,560
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: White Sands - EPG

Physical Value - Critical Air/Land/Sea Space

Official

Question	Ref	Scores: Army	Scores: Navy	Scores: AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)				RFC004	39,167
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					Ø
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					892
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					45,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)				RFC003	2692 ~~892~~
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					Ø
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					53
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					8,400
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)				REC AV-006	Ø

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					∅
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					Yes
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)					No
d. Swamp or riverine					No
e. Desert					Yes
f. Sea					No
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					100%.

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)				RFC1 = C017	99.7%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 97,624 b. 577,500 c. 820,734 d. 2,942,835
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					No
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					No
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					No
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					Yes
b. rotary wing?					Yes
c. unmanned?					Yes
d. cruise missile?					No
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					3
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					12,001
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					460,000
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				REC? 351	30,000
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					Yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					Yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Arnold

Physical Value - Critical Air/Land/Sea Space Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					~~Ø~~ 19
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					Ø
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					NO
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					Ø.
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					Ø.
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					Ø.
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					Ø
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					Ø
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					NO
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					Ø.
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					Ø.

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					~~0~~ ~~NO~~ 1
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					NO.
b. Forested or jungle					NO.
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					NO
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					100% ~~NO~~

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 70,000 b. 790,000 c. 955,000 d. 2,405,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					~~Yes~~ NC
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					Ø
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					Ø
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					Ø
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					Ø
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Edwards

Physical Value - Critical Air/Land/Sea Space

Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)				RFC023	12,225
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)				RFC023	~~41,333~~ ~~41,268~~ 41,268
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)	RFC AV-025 P 102-104			RFC 025	69,578
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)	AV-024 -025				49,774
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)	AV-024 -025			RFC 024	~~41,268~~ ~~41,333~~ 41,333
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					315
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					100,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					~~300~~ 315

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					∅
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)				RFC03 1	
a. Mountainous					Yes
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)					Yes
d. Swamp or riverine					Yes
e. Desert					Yes
f. Sea					Yes
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					100%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					95.6%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 313,000 b. 16,070,000 c. 18,025,120 d. 20,489,92
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO ~~Yes~~
Remarks					

Technical Value - Digital Models and Simulations (DM&S) TEM

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					Yes
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF) GVT / Human Factors

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO ~~Yes~~
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO ~~Yes~~

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO ~~YES~~
Remarks					

Technical Value - Integration Labs (IL) IFAST/Instrumented Prop. Comple

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					Yes
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					Yes
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					Yes
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF) BAF

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					Yes
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					yes
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					yes
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					Yes
b. rotary wing?					Yes
c. unmanned?					yes
d. cruise missile?					yes
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					12
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					14,995
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)	RFC AV-041			RFC 041	15,205,025
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				RFC 048	1,536,4[illegible]
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Eglin

Physical Value - Critical Air/Land/Sea Space

Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					~~724~~ 874
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)				RFC EC-019	~~91,980~~ ~~91,108~~ 91,998
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)				AV-045	
a. None					No
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					33,763
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					9,736
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)	BK 310 p.47			~~RFC AV-045~~	92,137 ~~91,966~~ ~~91,108~~ ~~91,993~~
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					478
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					100,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)				RFC AW-008	478

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					∅
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					No
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)				MOA	~~No~~ yes
d. Swamp or riverine					Yes
e. Desert					No
f. Sea					Yes
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					98.1%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					92.3%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles	EC-005			Radius AFC	a. 253,144 b. 1,205,794 c. 2,417,48 d. 4,383,86
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)	~~ASTE~~				~~Yes~~ NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					YES
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					Ø
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					Ø
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					Ø
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					Ø
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Holloman

Physical Value - Critical Air/Land/Sea Space Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					~~0~~ 4000
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					∅
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					~~No~~ Yes
c. All					~~No~~ Yes
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					~~0~~ 4,000
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					~~0~~ 100k
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					~~0~~ 4,000
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					∅
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					~~0~~ 140
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					No
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					∅
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					∅

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores		
		Army	Navy	AF
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)				
Remarks				

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					~~NO~~ Yes
b. Forested or jungle					NO
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					~~NO~~ Yes
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					100%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					99.4% ~~94.9%~~
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)	P.54 BK 312				100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)	P.54				100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles	P.54				a. 40,000 b. 690,000 c. 740,000 d. 1,290,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					YES
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					Ø
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					Ø
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					Ø
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					Ø
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Tyndall

Physical Value - Critical Air/Land/Sea Space Official

Question	Ref	Scores Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					78,1
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					~~20,133~~ 20,133
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					~~No~~ Yes
c. All					Yes
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					20,211
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					78,1
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					20,133
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					385
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					90,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					385

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					Ø
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					NO
b. Forested or jungle					NO
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					NO
f. Sea					Yes
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					95.9%.

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					~~93%~~ 92.6%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 181,000 b. 937,200 c. 2,067,700 d. 3,914,100
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					NO
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					Yes
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					Yes
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					Yes
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					NO
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					∅
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					∅
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					∅
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					∅
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks See Explaining					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: UTTR

Physical Value - Critical Air/Land/Sea Space Official

Question	Ref	Scores Army	Scores Navy	Scores AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					14,675
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					84
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					7,958
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					58,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					16,651
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					86
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					207
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					99,250
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					74.0 ~~73.5~~

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					ϕ
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					Yes
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					Yes
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					95.9%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					94.4%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 5,000 b. 1,140,179 c. 2,000,000 d. 2,200,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					NO
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					Yes.
b. rotary wing?					No.
c. unmanned?					Yes.
d. cruise missile?					yes
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					3.
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					13,500
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					7,788,14
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					744,650
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					Yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					Yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Dahlgren

Official

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores			
		Army	Navy	AF	
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)	19				4
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)	19				∅
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None	19				NO
b. Some					yes
c. All					yes
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)	19				68
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)	19				60K
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)	19				4
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)	19				64
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)	20				16
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)	23				NO
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)	23				∅
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)	23				∅

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)	19			m	Ø
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					No
b. Forested or jungle					No
c. Cultivated lowland (farmland)	21, 19				No
d. Swamp or riverine					Yes
e. Desert					No
f. Sea					No
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					53.7, ~~No~~ Ø

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100% ~~NO~~
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4)					
a. 50 miles				RFC center left AV 009	3,912,221
b. 100 miles					9,027,165
c. 150 miles					10,321,145
d. 200 miles					14,767,442
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					No ~~Yes~~
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					~~NO~~ ∅
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					~~NO~~ ∅
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					~~NO~~ ∅
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					~~NO~~ ∅
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: China Lake

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores Army	Scores Navy	Scores AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					1723 ~~1713~~
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					ϕ
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2) a. None b. Some c. All					a. No b Yes c. No
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					19,445
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					24,056
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					ϕ
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					381
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					99,500
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					244

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					Surface Ø
Remarks					

OFFICIAL

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					a. Yes
b. Forested or jungle					b. Yes
c. Cultivated lowland (farmland)					c. No
d. Swamp or riverine					d. No
e. Desert					e. Yes
f. Sea					F. No
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					98.4

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100%
Remarks					

Official

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4)					
a. 50 miles					a. 77,000
b. 100 miles					b. 1,493,000
c. 150 miles					c. 18,426,000
d. 200 miles					d. 19,423,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Official

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF) IR, Seeker, GCS DDT&E, ENVIRONMENTAL TEST

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					~~Yes~~ ~~No~~ Yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued) Official

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					

Technical Value - Integration Labs (IL) ~~EW Integration Laboratory~~ per JCSG decision 9/27/94

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					~~Yes~~ NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)	P.42				~~Yes~~ NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	P.129				~~No~~ NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)	P.108				~~Yes~~ NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					No
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			Official
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					No
b. rotary wing?					No
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					~~No~~ ∅
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					~~No~~ ∅
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					~~No~~ ∅
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					~~No~~ ∅
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Indianapolis

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores Army	Navy	AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					~~NO~~ ϕ
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					~~NO~~ ϕ
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					NO
b. Some					NO
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					ϕ
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					ϕ
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					ϕ
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					ϕ
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					ϕ
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					NO
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					ϕ
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					ϕ

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores		
		Army	Navy	AF
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)				
Remarks				

None

~~NO~~ 1

Physical Value - Topographical

Question	Ref	Scores		
		Army	Navy	AF
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)				
a. Mountainous				
b. Forested or jungle				
c. Cultivated lowland (farmland)				
d. Swamp or riverine				
e. Desert				
f. Sea				
Remarks				

NO

NO

NO

NO

NO

NO

Physical Value - Climatic

Question	Ref	Scores		
		Army	Navy	AF
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)				

100%

~~NO~~ 0

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100%
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 1,789,736 b. 4,385,199 c. 11,521,607 d. 18,230,277
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					No

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					No
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					Yes
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					No

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					Ø
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					Ø
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					Ø
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					Ø
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY: ~~Pax River~~ SITE: Pax River

Physical Value - Critical Air/Land/Sea Space

Question	~~Ref~~	Scores: Army	Scores: Navy	Scores: AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)	P. 90 / 74,000 x .04			RFC EC026	2460 ~~2960~~
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)	P 90			EC026 pg 90	~~71,654~~ ~~71,040~~ 68,488
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					Yes
c. All					NO
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)	~~P.92~~ P.90	74,113/79 - 1045 / 73,069	70,948 - 1045 / 69,903		~~73,069~~ ~~72,956~~ 69,903
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)	As reported for 3.1.G.5		EC026	~~[illegible]~~	2,460
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)				EC026 pg 90	~~71,654~~ ~~71,540~~ 68,488
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					250
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					100,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					250

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					∅
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					Yes
b. Forested or jungle					Yes
c. Cultivated lowland (farmland)					Yes
d. Swamp or riverine					Yes
e. Desert					NO
f. Sea					Yes
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					93.4%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					93.5
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4)					
a. 50 miles					1,132,793
b. 100 miles					9,048,269
c. 150 miles					17,660,919
d. 200 miles					24,209,467
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)	176, 177				~~yes~~ NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)	246				yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					yes
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					yes
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					yes
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					yes
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					yes
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					yes
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					yes
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					yes
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					yes
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					yes
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					a. Yes
b. rotary wing?					b. Yes
c. unmanned?					c. Yes
d. cruise missile?					d. Yes
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					12
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					11,800'
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)				4,646,802 LFC 042,046	RFC 045 (AV) 042
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1			AV011 AV017	~~[illegible]~~	745,968
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					Yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					yes
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Warminster

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores Army	Navy	AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)					~~No~~ Ø
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)					~~No~~ Ø
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None					No
b. Some					No
c. All					No
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)					~~No~~ Ø
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					~~No~~ Ø
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)					~~No~~ Ø
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)					~~No~~ Ø
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					~~No~~ Ø
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					~~No~~ No
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					~~No~~ Ø
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					~~No~~ Ø

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					1
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					NO
b. Forested or jungle					NO
c. Cultivated lowland (farmland)					NO
d. Swamp or riverine					NO
e. Desert					NO
f. Sea					NO
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					100%

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)					100%
Remarks 1.3.1 indoor Facility, mission not affected by visibility.					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					100%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles					a. 2,000,000 b. 12,000,000 c. 20,000,000 d. 30,000,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					Yes
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					NO
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					NO
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					20
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					20
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					20
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					20
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					20
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					20
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					20
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					NO
b. rotary wing?					NO
c. unmanned?					NO
d. cruise missile?					NO
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)					~~[illegible]~~ Ø
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					~~[illegible]~~ Ø
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)					~~[illegible]~~ Ø
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1					~~[illegible]~~ Ø
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					NO
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE

FACILITY:_____ SITE: Pt. Mugu

Physical Value - Critical Air/Land/Sea Space

Question	Ref	Scores: Army	Navy	AF	Official
1.1.1 How many square miles of land space are available to support test operations? (3.1.G.1)				~~RFC037~~ pg 122B	219 ~~226~~ ~~66~~ ~~66~~
1.1.2 How many square miles of sea space are available to support test operations? (3.1.G.1)				RFC037	~~124,781~~ ~~125,000~~ 125000
1.1.3 How much of the land under the restricted airspace does DoD own or control? (3.1.G.2)					
a. None	pg 121C only SAN NICHOLAS IS RESTRICTED AIRSPACE, ALL IS 126 OWNED				No
b. Some					~~NO~~ YES
c. All					Yes
1.1.4 How many square miles of restricted airspace (including warning areas) are available to support test operations? (3.1.G.3)				~~[illegible]~~ ~~[illegible]~~ CORT	103,000
1.1.5 What altitude limits are associated with the restricted airspace (including warning areas)? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.1.G.3)					100,000
1.1.6 How many square miles of available airspace are over land? (3.1.G.5)	219 within SEATESTRANG + 7 over PT MUGU			RFC037	226 ~~66~~
1.1.7 How many square miles of available airspace are over water? (3.1.G.5)				RFC037	~~124,781~~ ~~125,000~~ 125,000
1.1.8 What is the maximum straight line segment in the airspace, in nautical miles? (3.1.G.7)					500
1.1.9 Do supersonic areas and/or corridors exist? (3.2.A.1)					Yes
1.1.10 What altitude limits are associated with the supersonic airspace? (Upper Limit-Lower Limit) Upper limit is capped at 100k feet. (3.2.A.3)					100,000
1.1.11 What is the maximum straight line segment in the supersonic airspace, in nautical miles? (3.2.A.4)					300

SCORING FORM FOR AIR VEHICLE
(Continued)

Physical Value - Critical Air/Land/Sea Space (Continued)

Official

Question	Ref	Scores			
		Army	Navy	AF	
1.1.12 What is the minimum altitude allowable in the restricted airspace (including Warning Areas) (3.1.G.3)					Surface Ø
Remarks					

Physical Value - Topographical

Question	Ref	Scores			
		Army	Navy	AF	
1.2.1 Which of the following types of topography and ground cover/vegetation exist within your test airspace? (3.1.H.1)					
a. Mountainous					a. Yes
b. Forested or jungle					b. Yes
c. Cultivated lowland (farmland)					c. Yes
d. Swamp or riverine					d. Yes
e. Desert	per JWG decision to include IR-200 p.123 ISSUE #39			~~Pending~~ cont.	e. Yes ~~No~~ ~~Yes~~
f. Sea					f. Yes
Remarks					

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.1 What is the average percentage of days per year that visibility is greater than 3 miles? (3.1.H.8)					88.5%

SCORING FORM FOR AIR VEHICLE
(Continued)

Official

Physical Value - Climatic

Question	Ref	Scores			
		Army	Navy	AF	
1.3.2 What is the percent of test missions ,1986 - 1993, not canceled due to weather? (3.1.H.6)				~~[illegible]~~ Cert	99.8% ~~90.2%~~
Remarks					

Physical Value - Encroachment

Question	Ref	Scores			
		Army	Navy	AF	
1.4.1 What is the average percentage of test missions per year not canceled due to commercial or public use ? [100% minus (% derived from # of test missions canceled divided by the # of test missions over period reported)] (3.1.C.5.A, Data Forms)					100%
1.4.2 What percent of test missions were not canceled due to encroachment in the past two years [100% minus (% derived from sum of 92 and 93 canceled missions divided by the sum of 92 and 93 test missions)] (3.1.C.6, Data Forms)					99.5%
1.4.3 What is the total population inside the following radii of the facility? (3.1.C.4) a. 50 miles b. 100 miles c. 150 miles d. 200 miles				RFC 010	a. 5,350,000 b. 13,500,000 c. 17,500,000 d. 20,000,000
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Official

Physical Value - Environment

Question	Ref	Scores			
		Army	Navy	AF	
1.5.1 Does the facility have limiting environmental characteristics? (3.1.C.1.)					NO
Remarks					

Technical Value - Digital Models and Simulations (DM&S)

Question	Ref	Scores			
		Army	Navy	AF	
2.1.1 Do you have a DM&S facility that supports test operations? (General Information Form)					NO
2.1.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.1.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.1.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Measurement Facilities (MF)

Question	Ref	Scores			
		Army	Navy	AF	
2.2.1 Do you have a MF facility that supports test operations? (General Information Form)					Yes
2.2.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					No
2.2.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					No

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Measurement Facilities (MF) (Continued)

Official

Question	Ref	Scores			
		Army	Navy	AF	
2.2.4 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					No
Remarks					

Technical Value - Integration Labs (IL)

Question	Ref	Scores			
		Army	Navy	AF	
2.3.1 Do you have an IL facility that supports test operations? (General Information Form)					No
2.3.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.3.3 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.3.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Hardware-In-The-Loop (HITL)

Question	Ref	Scores			
		Army	Navy	AF	
2.4.1 Do you have a HITL facility that supports test operations? (General Information Form)					NO
2.4.2 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Hardware-In-The-Loop (HITL) (Continued)

Official

Question	Ref	Scores			
		Army	Navy	AF	
2.4.3 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					NO
2.4.4 Does the facility have specialized facilities to support conduct of test operations? (3.1.D.1)					NO
Remarks					

Technical Value - Installed Systems Test Facilities (ISTF)

Question	Ref	Scores			
		Army	Navy	AF	
2.5.1 Can the facility support fighter/helo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.2 Can the facility support B-1 bomber/cargo-sized aircraft testing? (3.2.C.3 & Fac form)					NO
2.5.3 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					NO
2.5.4 Is the facility equipped to support Top Secret or Special Access Required work? (3.1.E.3)					NO
2.5.5 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					NO
Remarks					

SCORING FORM FOR AIR VEHICLE
(Continued)

Technical Value - Open Air Ranges (OAR)

Official

Question	Ref	Scores			
		Army	Navy	AF	
2.6.1 How many of the following types of air vehicles can be tested: (3.2.C.1)					
a. fixed wing?					a. Yes
b. rotary wing?					b. Yes
c. unmanned?					c. Yes
d. cruise missile?					d. Yes
2.6.2 What is the maximum number of simultaneous missions you can support with telemetry? (3.2.C.6)				RFC AW-097	~~6~~ 15
2.6.3 What is the length (in feet) of available concrete runway? (3.2.B.1)					11,000
2.6.4 What is the ramp area available (in sq ft)? (3.2.B.1)				~~RFC~~	4,798,900
2.6.5 What is the hangar space available (in sq ft)? (3.2.B.1				~~RFC~~ RFC 047	353,598
2.6.6 Are ground facilities available to support preflight checkout and/or rehearsal of test missions? (3.2.C.2)					Yes
2.6.7 Does the facility provide a T&E product or service without which irreparable harm would be imposed on any mission (other than test) deemed critical to the operational effectiveness of the armed forces of the US? (2.3.B.2)					Yes
2.6.8 Is the facility equipped to support TOP SECRET or Special Access Required work? (3.1.E.3)					Yes
2.6.9 Do you have specialized facilities which are required to support you in conducting your test operations at your facility? (3.1.D.1)					Yes
Remarks					