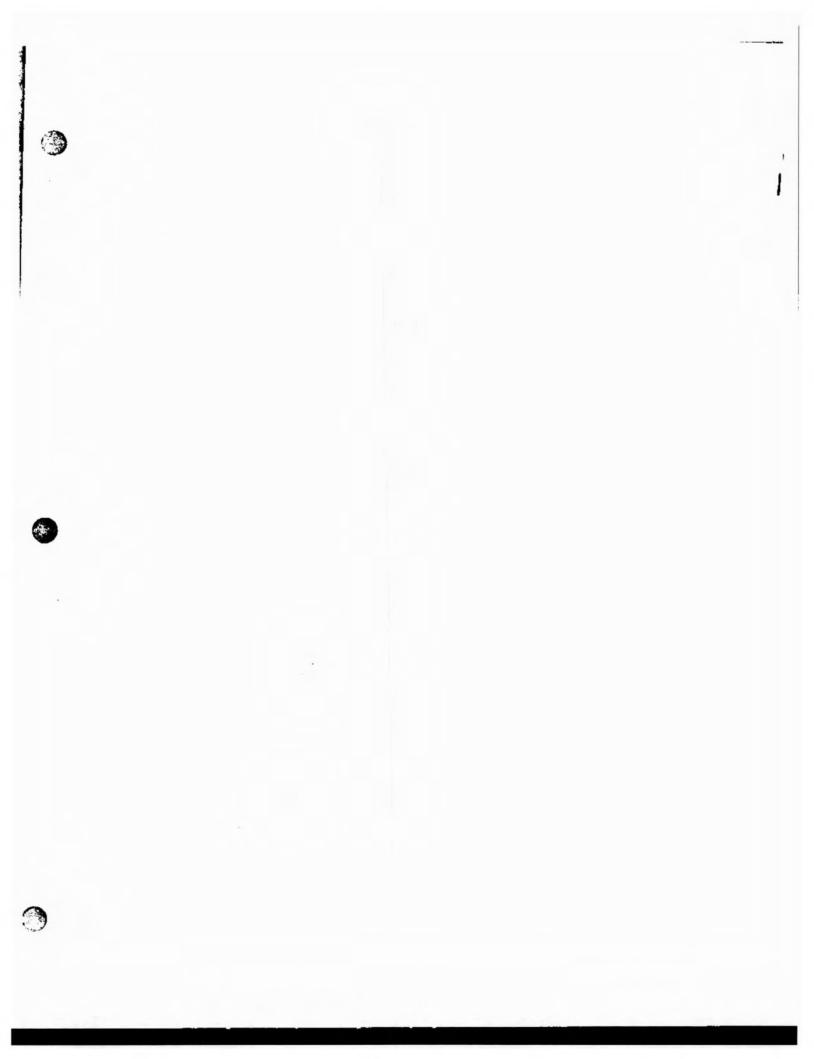
Program Analysis and Evaluation (PA&E)

Transition Book

TAI LE OF CONTENTS

		SUBJECT	TAB
1.	ORG	GANIZATION AND MANAGEMENT	
	Α.	Organ zation	
		 Aission Statement Organization Structure Foals Junctions 	1 2 3 4
	B.	Manag ement	5
	C.	Extern il Process	6
II.	BUI	DGET	7
III.	PER	SONNE	
	A.	Summary of Statistics	
		 Characteristics of Starf Crade Structure Legree Levels and Majors Colleges and Universities 	8 9 10 11
IV.	POI	JCY/ISS JES	
	A.	PA&E Fransition Briefing	12



AN INT RODUCTION TO PA&E

The office of Program Analysis and Evaluation dates back to 1961, and has also been known at various times as the Office of Bystems Analysis, and as the Office of Planning and Evaluation. Its staff has varied from a peak of over 100 to around 100; today's level is authorized at 157. Of these, 128 are analytical staff. About 30 percent of the professional staff are active duty military officers and many of the livitian personnel also have served in the armed services. All the analytical staff members have been hand picked and they have graduate degrees in a quantitative analytical field.

The office provides incependent analytic advice to the Secretary and Deputy Secretary of Defense regarding alternative weapon systems and force structures, the development and evaluation of alternative defense programs, and the cost-effectiveness of defense systems. Consistent with its advisory role, the office has no decision authority or line responsibility, and has no vested interest in any sector of the defense budget.

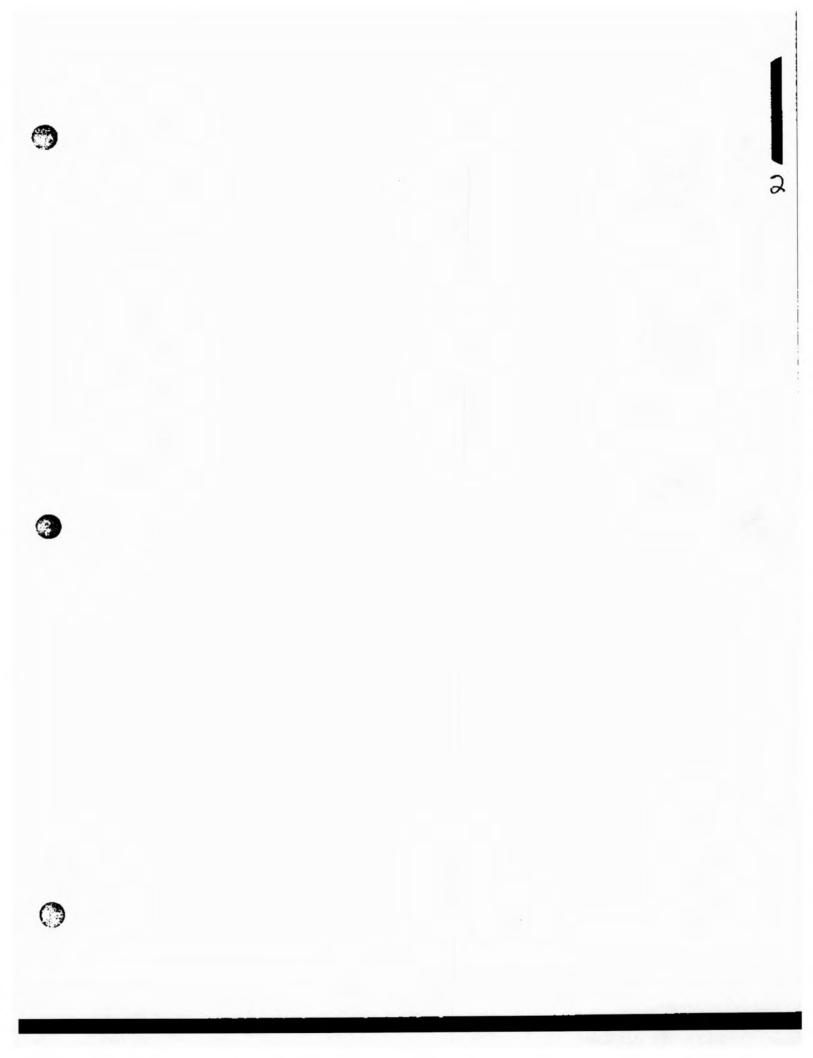
PA&E is re ponsible for manage nent of he programming system. This includes working with other OSD offic is to deve op planting and programming guidance, as well as directing the annua program review. The ultimate product from the program review is the Future Years Defer se Program, or FYD!—the authoritative statement of the Department's plans for force structure (number of ships, bris ades and divisions, aircraft squadrons and wings we will operate), procurement (number of ships, tanks, aircraft, missiles we will buy), manpower (number of people, military and civilian, we will employ in each of the services and defense agencies), and othe supporting program; (such as R &D and military construction), and what it will all cost. Speci ically, the Director of PA&E series as Executive Secretary of the Defense Resources Board (I)RB), the senior delil erative load responsible for advising the Secretary of Defense on resourc: issues. The Director also serves as Chair of the Program Review Group (PRG), which reviews and for nulates major program reviews prior to their presentation to the DRB. PA&E also 's responsible for preparing the Diffense Planning Guidance, the document through which the Secretary of Defense provides direction on the priorities to be followed in formulating the defense program. PA&L's Deputy I frector for Resource Analysis serves as Chair of the Cost Analysis Improvement Group, he organization responsible for preparing independent cost estimates of najor defense programs. In addition, PA&E traditionally plays a central role in prep. ring analyses and for mulating all ematives for major defense reviews, such as the Quadrennial Defense Review (QDR).

Administratively, PA&E reports to the Under Secretary of Defense (Comptroller). Within this structure, PA&E and Comptroller have firstered a complementary relationship, with PA&E directing the programming phase of budget deliberations, while Comptroller focuses on budget-level issues. Because many specific issues are dealt with in both phases of the programming and hudgeting civile, PA&E and Comptroller management and analysts work together closely to manage the Department's fiscal issues in a coordinated way.

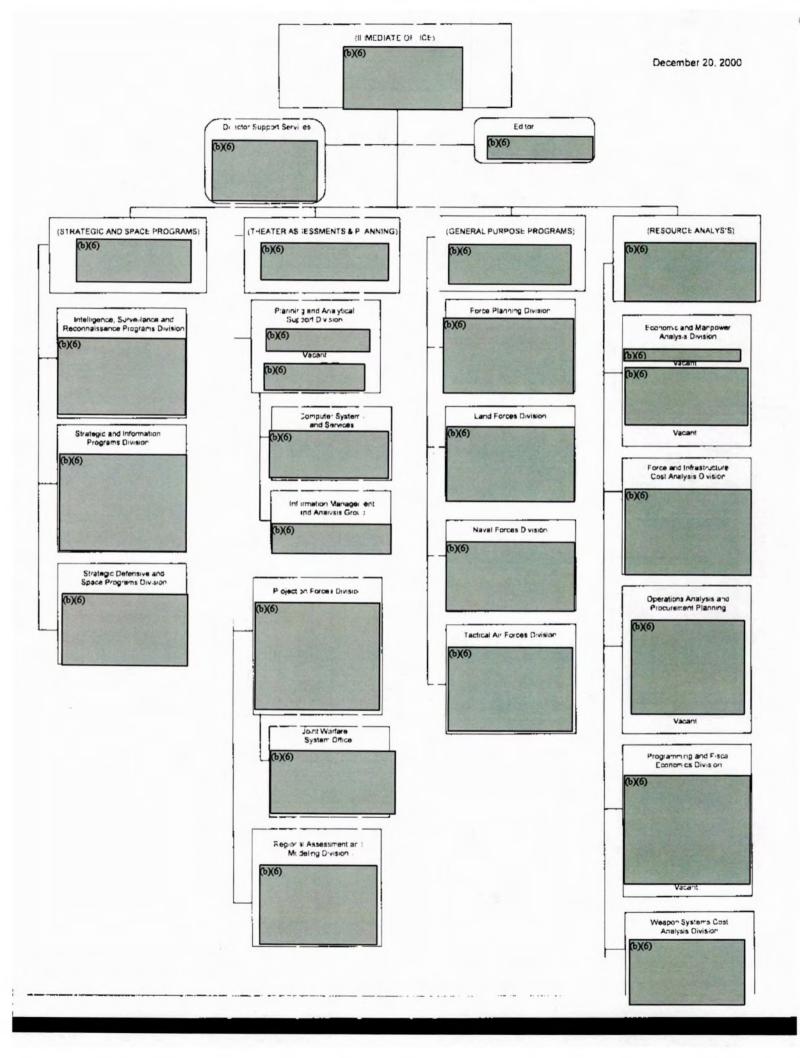


To be able to sustain its position is an intellectually independent advisor to the Secretary and Deputy Secretary of Defense, PA&E has avoided making public statements regarding the defense program and, in particular, defer ding or justifying that program. This has allowed PA&E to take positions in private that it could not easily take in public—to play the role of "devil's advocate," to propose and analyte alternatives to both service and administration positions with objectivity, to give the Secretary and I reputy Secretary of Defense whatever analytical help he may need—and to do all this with no purpose other than helping the Secretary. This policy has preserved the intellectual integrity of the staff, but it has occasionally made it the object of criticism.

PA&E has always been a reflection of the particular Secretary and Deputy Secretary of Defense for whom it is working, and its actions have been tailored to their objectives and management procedures. This has often included the unpopular but necessary task of fitting the defense program to the budgetary limits let for the Department by the President. But, the office does more then develop internal critique of proposed programs: it has led the way and performed a major tole in developing significantly more ambitious Defense programs for the Secretary's and administration is consideration. These activities have been focused on the areas where joint programs are particularly important, such as mobility systems. In recent years, PA&E has also played a major role in several efforts to work with the Office of Management and Budget to secure additional delense resources to support the objectives of the 1997 Quadrennial Defense Review.



*Currently, the Principal Deputy Director is the only non-career appointment in PASE.





Department of Defense

DIRECTIVE

NUMBER 5141.1

March 18, 1999

(DA&M)

SUBJECT: Director, Program Analysis and Evaluation (PA&E)

References: (a) Title 10, Jnited States Code

- (b) DoD Directive 51-1.1, "Assi tant Secretary of Defense (Program Analysis and Evaluation), 'February 1, 1989 (hereby canceled)
- (c) <u>DoD Directive 50(0.4</u>, "CSD Cost Analysis Improvement Group (CAIG)," November 24, 199::
- (d) <u>DoD Directive 51</u> 8.3, "Und a Secretary of Defense (Comptroller) (USD(C))/Chief F nancial Officer (CFO), Department of Defense," January 6, 1997
- (e) DoD 5025.1-M, "DoD Directives System Procedures," August 1994, authorized by DoD Directive 5025.1, June 24, 1994
- (f) DoD Directive 89: 0.1, "Nana gement and Control of Information Requirements," June 11, 1993

1. REISSUANCE AND FURPOS 3

Under the authority vested in the Socretary of Defense by Section 113 of reference (a), this Directive reissues reference (b) to update the responsibilities, functions, relationships, and authorities of the Director, FA&E, as prescribed herein.

2. APPLICABILITY

This Directive applies to the Office of the Secretary of Defense (OSD), the Military Departments, the Chairman of the Joint Chiefs of Staff, the Combatant Commands, the Inspector General of the Department of Defense (IG, DoD), the Uniformed University of the Health Sciences, the Defense Agencies, and the DoD Field Activities (hereafter referred to collectively as the "DoD Components").

3. RESPONSIBILITIES AND FUNCTIONS

The <u>Director</u>, <u>P.f.&E</u>, is the principal staff assistant and advisor to the Under Secretary of Defense (Con.ptroller) (USD(C))/Chief Financial Officer (CFO), Department of E efense, and the Secretary and Deputy Secretary of Defense for matters pertaining to program analysis and evaluation. In this capacity, the Director, PA&E, shall:

- 3.1. Provide analysis and advise, make recommendations, and participate in the development of policies for and the operation of the Planning, Programming, and Budgeting System, including the filical and programmatic guidance upon which DoD program projections are based.
- 3.1.1. Manage the program review phase of the Planning, Programming, and Budgeting System; including serving as Executive Secretary of the Defense Resources Board (DRB) and Chairman of the Program Review Group (PRG).
- 3.1.2. In coordination with the Under Secretary of Defense (Policy), prepare the Defense Planning Guidance (D'G) and serve as Cochairman of the Defense Planning Advisory Group (DPAG)
- 3.2. Perfor n analyses and evaluations of alternative plans, programs, forces, personnel levels and budget submissions in relation to projected threats, allied contributions, estimated costs, resource constraints, and U.S. defense objectives and priorities.
- 3.3. Review, analyze, evaluate, or initiate programs (including intelligence and classified programs), actions, and taskings to ensure adherence to DoD policies, standards, and national security objectives, and ensure that they are designed to accommodate operational requirements and promote the readiness and efficiency of the U.S. Armed Forces.
- 3.4. Ensure that the costs of DoD programs, including classified programs, are presented accurately and completely.
- 3.5. Provice guidance for and manage the operation and improvement of the DoD Future Years Defense Program (FYDP) system, including the Program Element Structure.



- 3.6. Assess the effects of DoD spending on the U.S. economy and evaluate alternative policies to ensure that the DoD program can be implemented efficiently.
- 3.7. Provide leadership in developing and promoting improved analytic tools, data, and methods for analyzing national security planning; the effectiveness of United States, allied, and threat forces; and the allocation of resources.
- 3.8. Serve on boards, committees, and otler groups pertaining to the Director, PA&E's functional areas, and represent the USD(C)/CFO and Secretary of Defense on PA&E matters outside the Department of Defense.
- 3.9. In support of the Under S cretary of Defense (Acquisition and Technology), perform critical reviews of requirements, performance, and life-cycle costs of current and proposed weapon systems including reviews of Analyses of Alternatives (A(As) submitted within the Defense Acquisition Board review and milestone decision process. Provide advance guidance to the Military Departments on alternatives and analytic techniques employed in weapon system AOAs.
- 3.10. Provide leadership and support to the Cost Analysis Improvement Group, in accordance with DoD Eirective: 000.4 (reference (c)).
- 3.11. Perform such other duties as the USD(C)/CFO and the Secretary of Defense may prescribe.

4. RELATIONSHIPS

- 4.1. In the performance of assigned functions and responsibilities, the Director, PA&E, shall ser/e under the authority, direction, and control of the USD(C)/CFO, and shall:
- 4.1.1. Report to the USD(C)/CFO, it accordance with DoD Directive 5118.3 (reference (d)); however, substantive programmatic analysis, advice, and recommendations shall be submitted directly to the Secretary and Deputy Secretary of Defense.
- 4.1.2. Coordinate and exchange i ifo mation with other OSD officials, heads of DoD Components, and Fe leral officials having collateral or related functions



- 4.1.3. Use existing facilities and services of the Department of Defense or other Federal Agencies, when practicable, to avoid duplication and achieve maximum efficiency and economy.
- 4.2. Other DSD officials and Heads of DD Components shall coordinate with the Director, PA&E, on all matters related to the responsibilities and functions cited in section 3., above.

5. AUTHORIT ES

The Director, PA&E, is hereby delegated authority to:

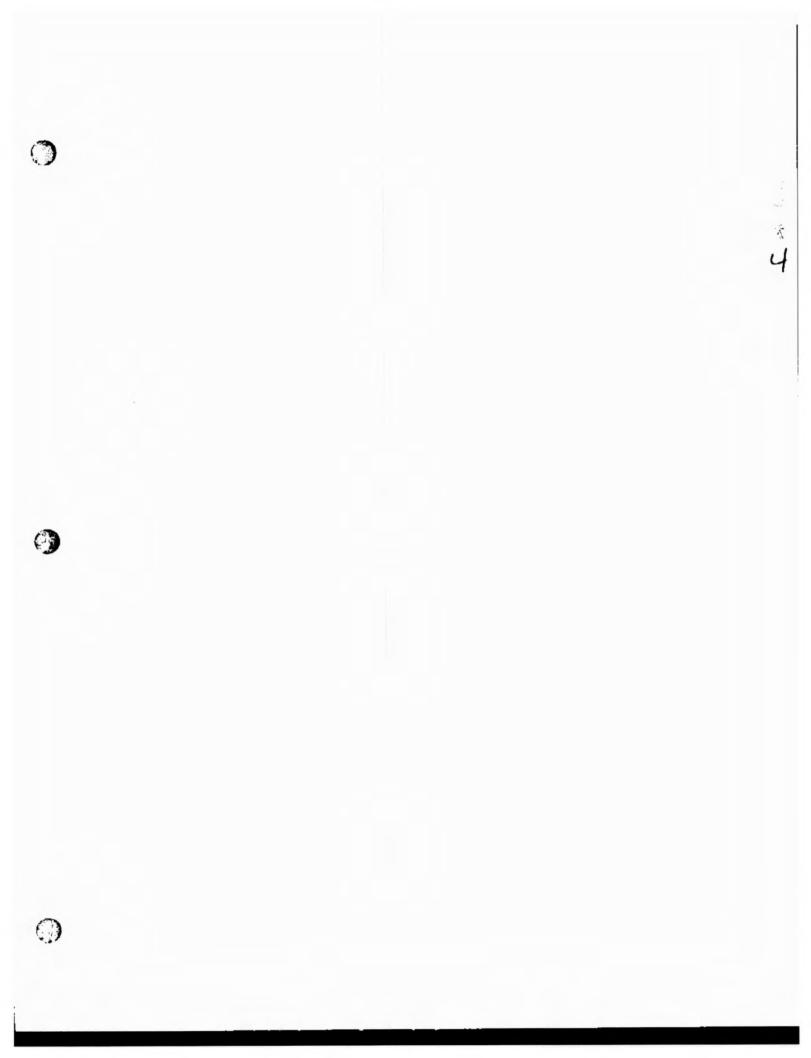
- 5.1. Issue DoD Instructions, I oD put lications, and one-time directive-type memoranda, consistent with DoD 1025.1-M (reference (e)), that implement policy approved by the Secretary of Defer se in assigned areas of responsibility. Instructions to the Military Departments shall be issued through the Secretaries of those Departments or their designents. Instructions to the Combatant Commands shall be communicated through the Chairm and of the Joint Chiefs of Staff.
- 5.2. Obtair reports, information, advice, and assistance, consistent with DoD Directive 8910. (reference (f)), as necessary to carry out assigned functions.
- 5.3. Communicate directly with heads of DoD Components. Communications to Combatant Commanders shall be transmitted through the Chairman of the Joint Chiefs of Staff.
- 5.4. Communicate with other Government officials, representatives of the Legislative Branch, members of the public and representatives of foreign governments, as appropriate, in carrying out a signed functions.

6. EFFECTIVE DATE

This Directive is effective immediately.

John J. Hanne

Di buty Secretary of Defense



OFFICE OF THE DIRECTOR, SUPPORT SERVICES

Mic telle Green, Director

The Support Services Office provides certral administrative support for the organization in the following areas: travel budget and travel order authorization; civilian and military personnel management; personnel, information, and physical security; correspondence and mail distribution; research and reference service; records management; office facilities, supplies, and property management; document printing, distribution, etc. for the DoD program and execution reviews.

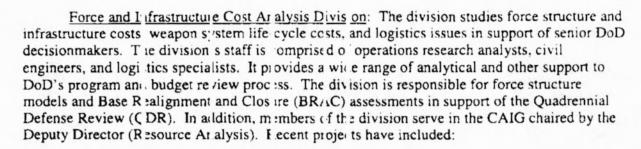
Resource Ana ys s Deputate

The Office of the Deputy Director, Resource Analysis, serves as the key advisor to the Office of the Secretary of Defense on program costs. The office assists the Director, Program Analysis and Evaluation (PA&E), in the manage nert of the program review phase of the Planning, Program sing and Budgeting tystem (PES); performs analyses and evaluations of alternative plans, programs, forces, personnel levels, and budget submissions; and operates and improves the DoD Future Years Defense Program (FYDP) system. The Deputy Director serves as the Executive Sepretary to the Program Review Group. In addition, the office develops the statutory-mandated independent cost est mates for major defense acquisition programs. In this capacity, the Deputy Director acts as the Chairman of the Cost Analysis Improvement Group (CAIG), as which he reports directly to the Under Sepretary of Defense (Acquisition, Technology and Logistics) (USD(AT&I)). The Deputy Director's immediate staff administers these analytical functions for the five divisions that make up Resource Analysis, with the primary administrative functions being:

- Program Review Coordinato:
- CAIG E cecutive Secretary
- CAIG L brarian

Economic a id Manpover Analy is Divis on: The division conducts studies of economic issues associated with the defense program, as well as analyses of civilian and military manpower, personnel policies and requirements, including recruiting, retention, compensation, quality of life concerns, and health care. Also, it e division provides analytical and other support of program review. Finally, members of the division prepare independent analyses of the costs of major weapon systems in support of the CAIC. Projects include:

- Creation of a system to bette: manage mi itary health care costs
- Design and review of perfort sance contracts for defense agencies
- Assessing ent of the Department's outsourcing and privatization program
- Overvie v of the irr plications of trends in the economy for the level of resources likely to be available to DoD
- Evaluation of choices among personnel compensation arrangements with different incentive effects
- Projection of the planned future defer sell udget on planned DoD budgets into the implied defense purchases from the national economy.



- · Aviation Materiel Support Review
- Operations and Maintenance Program Balance
- Visibility & Management of Operating and Support Costs Expansion
- · Force & Infrastruc ure Code: Enhancements
- Force S ructure Costing System Development
- Facilities Sustainment Mode Implementation
- · Defense Working Capital Fund Programining

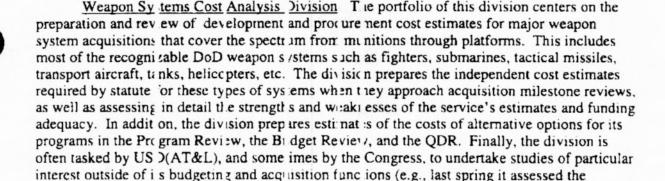
Operations Analysis and Procure ment Pluming Division: The division develops CAIG life-cycle cost estimates for major defense acquisition programs in support of the Defense Acquisition Board and the PPBS. Cost estimates are prepared for a broad array of high-technology systems including: satellite maging communication, navigation, and weather systems, space laurich systems, national and theater missile defense systems, advanced software systems, advanced haval surface comba ants, precision strike systems, chemical demilitarization systems, biological defense production facilities, and contracted medical care support for active duty and retired mi itary personnel. The division leads interagency working groups examining cost issues related to the use of radio frequency spectrum for civil navigation satellites and third generation wireless communication systems. The division also organizes and administers the Annual DoD Cost Analysis Symposium and leads college recruiting initiatives for OSD/PA&E. Recent analyses include:

- Independent Cost Estimate or the National Missile Defense Program
- Independent Cost Estimate or the Glob d Hawk Unmanned Aerial Vehicle (UAV)
 program
- Cost Assessments for the S₁ aced Base I sfrared Systems (SBIRS) High and Low satellite programs
- Cost Assessment for the DI -21 advanced surface combatant program
- Development of a Cost Morel for Contracted Medical Care for DoD Personnel
- Independent Cost Estimate or the Theater High Altitude Area Defense (THAAD)
 program
- Analysis of Vaccine Production Facility Requirements and Costs



Programming and Fiscal Economics Division: The division's staff is an interdisciplinary team of operations esearch analysts and information technology specialists. The division prepares the Deput; Secretary's annual iscal guidar ce. The division serves as DoD's chief information office for data for the DoD multi-year piogram. The division operates the FYDP and the Program Objectives Memorandi m (POMI), and applies Internet and other technology to modernize them and I make the n interopi rable with cata from the Comptroller and from the military services. The division performs special studies and provides analytical and other support to DoD's piogram review process. The division staff serves in the Cost Analysis Improvement Group (CAIG). The division maintains liaison with the Defense Resources Management Institute (DRMI) in Monterey, California, on behalf of the Director, Program Analysis and Evaluation. Recent projects have included:

- Web-ba ed FYDP
- "POM-I ess" Program Revie v
- Defense Programming Database
- Military Manpowe Coordination System
- FYDP \ isibility of Management Headquarters, and CINC Manpower
- Cost Growth Research
- FYDP-t >-Budget/Major Defense Acquisition Program (MDAP) Crosswalk



F-22 Milestone III production decision li e cycle cost estimate

economic case for qual sourcing the Joir t Strike Fig. iter). Recent projects include:

- Interim Armored Vehicle's Milestone II/ II life cycle cost estimate
- Assessn ent of Cru ader program referm initiatives
- Congressionally directed classified program review
- Navy's Ship Industrial Base Study econo nic model
- Air Force Public/P ivate corr petition eco iomic analysis

Strategic and Space Programs (S&SP) Deputate

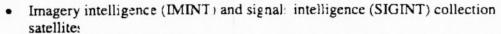
The office of the Deputy Director (Strategic and Space Programs) serves as the key advisor to the Office of the Secretary of Defense for cost-effectiveness and affordability as essments of defense programs for ballistic missile defense; space systems (including national intelligence); strategic forces; information technology; nuclear/ chemical/biological protection; and ntelligence, surveillance, and reconnaissance systems. The 5&SP deputate is rest onsible or preparing the evaluation of programmatic alternatives on najor defense issues for presentation to the Defense Resources Board and Expanded Defense Resources Boarc. These evaluations lead to resource allocation decisions documented in the Program Decision Memorandum issued by the DepSecDef and in the Intel igence Program Dec sion memorandum issued by the DepSecDef and Director of Cer tral Intelligence (DC1). The depitate also assesses the cost-effectiveness and affordability of major defense a quisitio a programs reviewed by the Defense Acquisition Bo and as well as the costs and benefits of major information technology (IT) acquisition programs reviewed by the IT Overar thing Integrated Product Team (OIPT). These assessments suppor mileston; acquisitior decisions by the USD(AT&L) and ASD(C3I). The Deputy Director (S &SP) serves as the PA&E representative to the Senior Review Group that supports he Spec al Access Program Oversight Committee chaired by the DepSecDef The Deputy Directo (S&SP) leads and manages the three divisions described below.

Strategic Defensive and Space Programs Division. The division has responsibility for analysis and evaluation of ballistic reissile defense programs, space programs (excluding national intelligence), and strategic reclear command, control, and communications programs. Critical analyses and assessments conducted by the division in the past few years include the following:

- Evaluat on of programmatic options for eploying a national missile defense
- Analysis of the potential operational effectiveness of the Airborne Laser theater ballistic missile defense (TB AD) system
- Assessment of Global Positioning System programmatic options to increase military protection and enhance civil sector navigation capabilities
- Analysis of potential performance of the Navy Theater-Wide TBMD system
- Assessment of alternatives for the E-B National Airborne Operations Center

Intelligence Surveillar ce and Re connais rance (ISR) Programs Division. The division provides analytic support to resource decision-making on ISR programs, including those within the National Foreign Intelligence Program (NFIP). It conducts the annual Intelligence Program Review jointly with the staffs of the DCI and the ASD(C3I), and also participates in the joint intelligence budget review, DoD and National Reconnaissance office acquisition program reviews, and the Intelligence Senior Steering Group. The division staff has led the evaluation of numerous major intelligence program issues that were briefed to the DepSe cDef and the DCI and resulted in resource adjustments tot ding billions of dollars. There is sue evaluations addressed:





- Airborn: reconnais sance systems, including Global Hawk and other unmanned aerial vehicles
- Measurement and signatures intelligence (MASINT) space-based demonstrations
- Modern zation of IMINT tasl ing, processing, exploitation and dissemination
- · Intellige ice suppor, to the tai tical wa fig iter
- "SIGIN" Transformation" to adapt to the changing international information technology environment
- Recapitalization of aging bal istic missile intelligence collection assets

Strategic an I Information Programs Division The division has responsibility for analysis and evaluation of strategic strike forces, information technology programs, chemical/biological/nuclear protection and counterproliferation programs, the nuclear weapons stocky le stewardship program, and soic nee and technology programs. Critical analyses and as: essments conducted by the division in the past few years include the following:

- Evaluation of programmatic alternatives for modernization and service life extension of strategic forces
- Assessment of alterratives to a light the Department of Energy's Nuclear Stockpile Stewards up Program with Do D nuclear warhead requirements
- Evaluation of programmatic options to assist state and local authorities to manage the consequence of a chemical or biological attack
- Analysis of programmatic alternatives for improving information assurance
- Development of a framework o track Nav / Marine Corps Intranet contract cost and effectiveness.
- Assessment of options for improving I/ODs wide-area and base-level communications infrastructure.

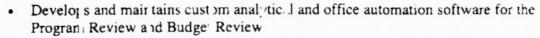
Theater Assessments and Planning Deputate

The Office of the Deputy Di ector, Thea er Assessments and Planning, serves as the key advisor to the Office of the Lecretary of Defense for strategic planning, theater-level combat at alysis, regional assessments, and the Department's mobility programs (airlift, sealift, and prepositioning). The office vorks closely with OUSD(P) to produce the Secretary's Defense Planning Guidance; nai mains the only modeling and simulation capability for warfare and transportation analysis within the Office of the Secretary of Defense; provides information technology support for PA&E; and leads the analytic community in developing new methods and analysis capabilities. During the Program Review, the office has taken the lead in evaluating mobility programs and associated enroute infrastructure; programs for the Special Operations community; information technology for he Pentagon; key issues from the CINCs as well as coordinating the CINC's involvement in the budget through the Integrated Priority Lists. The office also supports OUSE (P) with quantitative assessments to develop and implement major initiatives in NATO.

Projection I orces Division (PFI) advises the Secretary of Defense on objectives for mobility forces and evaluates the quality of service program proposals to identify opportunities for improving efficiently, productivity, and cost effectiveness. Leads strategic planning by publishes the Secretary's I refense Planning Guidance as well as annual plans and reports under the Covernment Performance and Results Act (GPRA). The division also provides assessments of combit and support forces for OSD through the use of analytical modeling and simulation via PA&E's Studies and Analysis Center (SAC). PFD is working with the Joint Staff and Services to develop new analytical methods including the next-generation theater-level warfare model, Joint Warfare System (JWARS). Projects include:

- Publish is the Defense Planning Guidanc:
- Completed analysis for Mobility Requirements Study-2005 with the Joint Staff
- · Prepare the GPRA Performance Plan and Report.
- Evaluat :d C-5 Modernization AoA, AF "anker Study, WMD Phases I and II
- Review investmen to en rou e infras ruc ure and prepositioning worldwide

Planning ar d Analytical Suppor Division: The division comprises three subordinate units, Computer Systems and Services (CS&S), information Management and Analysis Group (IMAG) and Joint Data Support (JDS). ISS&S provides all of PA&E's computer support including help desk operations, network operations, and information technology modernization. IMAG develops cus om electronic business software for PA&E and supports PA&E staff on special projects. JDS provides data support to joint departmental studies. Projects include:



- Provide; data for analytic models used for transportation and theater-level warfare assessments.
- Assembled and evaluated after-action da a from Allied Force
- Develors comprehensive data model and managing data for JWARS

The Re; jonal Assessments and Modeling Division conducts studies and analyses to support U.S. alliances viorldwide Division activities include assessing implications of long term challinges to U.S. securit interests; conducting modeling, wargaming, and simulation of regional contingencies; creating as displementing programs to help emerging democracies and developing nations develop civilian-controlled, cost-constrained defense programs; analyzing NATC force requirements and alliance force improvement objectives; everseeing the CINC Integrated Priority List process. Recent activities include:

- Prepare i analyses that supported successful implementation of NATO enlargement and the NATO Defense Caj abilities Initiative.
- Assisted 20 emerging democracies and developing nations in reforming their defense planning processes.
- Conducted regional great power wargam: assessment for 1997 ODR.
- Developed program review proposals that will significantly enhance SOCOM modern zation and readiness capabilities

General Purpose Frograms Deputate

The Office of the Deputy Director, General I urpose Programs, serves as the key advisor to the Director, Program Analysis and Evaluation (PA&E) on conventional forces and the programs that support them. In the context of the planning, programming and budgeting system (PPBS), the office assists in preparation of the Defer se Planning Guidance (DPG) and performs analyses and evaluations of alternative plans, programs, forces, personnel levels, and budget submissions during the annual review of the defense program and budget. The office also conducts cost-effectiveness and affordal ility analyses to support reviews of major acquisition programs by the Defense Acquisition Be ard.

Force Plann ng Division: The division prepares the Defense Program Projection (DPP), which assesses quantitatively the long-term implications for forces and resources of the Department's near-term policies and programs. The division also conducts studies of selected issues that cut across service and/or mission area boundaries, including:

- Aging trends of major platforms and associated readiness concerns
- Aging trends of the Department's facilities and associated recapitalization needs
- · Readine is trends of the services' forces
- Trends in funding key readiness-related accounts and their relationship to force readines;
- · Metrics or assessit g the ove all health o the defense program

Land Force: Division: The divis on analyzes and evaluates the Department's land forces and associated programs. Its responsibilities include Army and Marine Corps ground and rotarywing aviation force: Program matic responsibilities include both the major platforms and munitions supporting these forces. The division prepares the sections of the DPG providing direction for the execution of land force programs. During the program review, the division assesses the compliance of service-proposed land force programs with extant policy and programmatic decisions. For those case, in which compliance issues are discovered, the division develops alternatives to the service proposals for consideration by the Secretary and Deputy Secretary of Defense. In support of the Inder Secretary for Acquisition, Technology, and Logistics, the division prepare: guidance for and oversees the conduct of cost-effectiveness analyses (also known as Analyses of Alternatives (ApAs)) for major defense acquisition programs supporting land forces; affords bility assessments are also prepared for major programs. The division also conducts studies of selected high-interest issues regarding land forces. Ongoing and recently completed work it cludes:

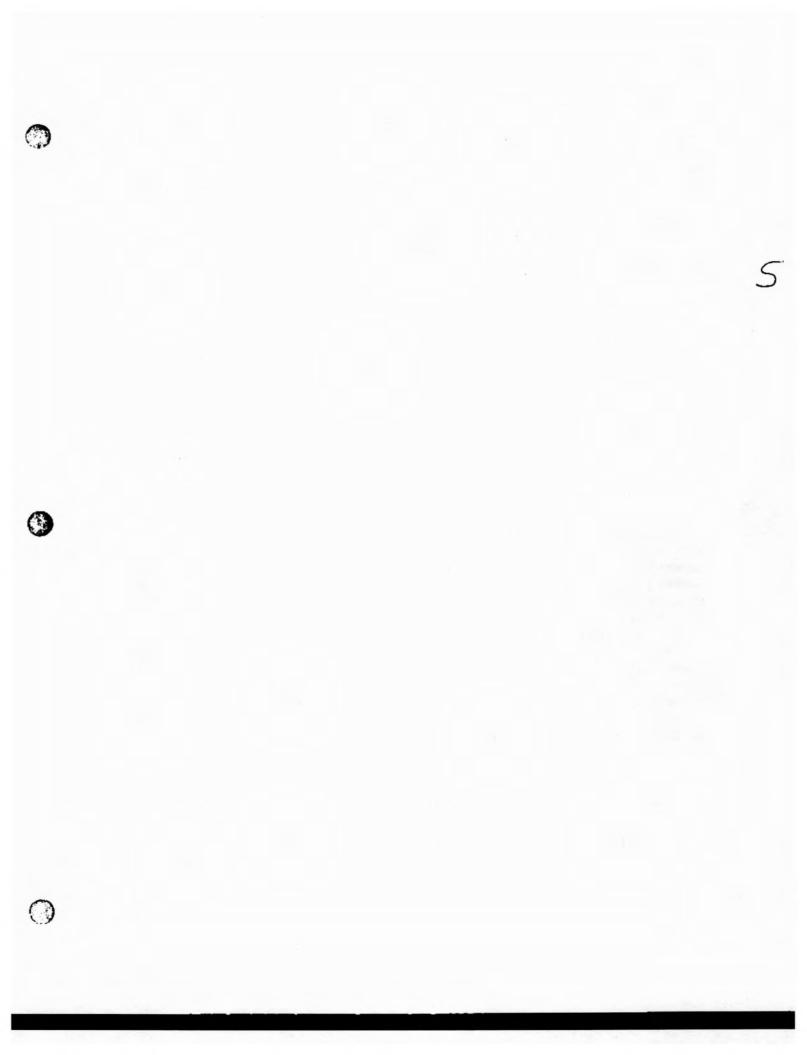
- Analysis of challenges in implementing frmy digitization
- Analysis of the marginal cost of army rec uiting
- Analysis of the cost-effective tess of Army short-range air defenses
- · Comanc le AoA an i Comanc le afforcabi ity assessment
- Crusade AoA
- Advanced Amphibious Assault Vehicle A oA and affordability assessment
- Assessir ent of Interim Armored Vehicle cost-effectiveness
- Assessment of the adequacy of existing and planned munitions inventories

Naval Force: Division: The division analyzes and evaluates the Department's naval forces and associate I programs. Its responsibilities in clude naval surface combatants, attack submarines, amphib ous ships, support slips, and malitime patrol aircraft. Programmatic responsibilities include both the major plutforms and munitions supporting these forces. The division prepares the sections of the DPC providing cirection for the execution of naval force programs. During the program review, the division alsesses the compliance of service-proposed naval force program; with extant policy and program natic decisions. For those cases in which compliance issues are discovered, the division develops alternatives to the service proposals for consideration by the Secretary and Deputy Secretary of Defense. In support of the Under Secretary for Acquisition, Technology, and Logis ics the division prepares guidance for and oversees the conduct of cost-effectivenes analyses (also known as AoAs) for major defense acquisition program supporting naval forces; affords pility assessments are also prepared for major programs. The division also conducts studies of selected high-interest issues regarding naval forces. Ongoing and recently completed work includes:

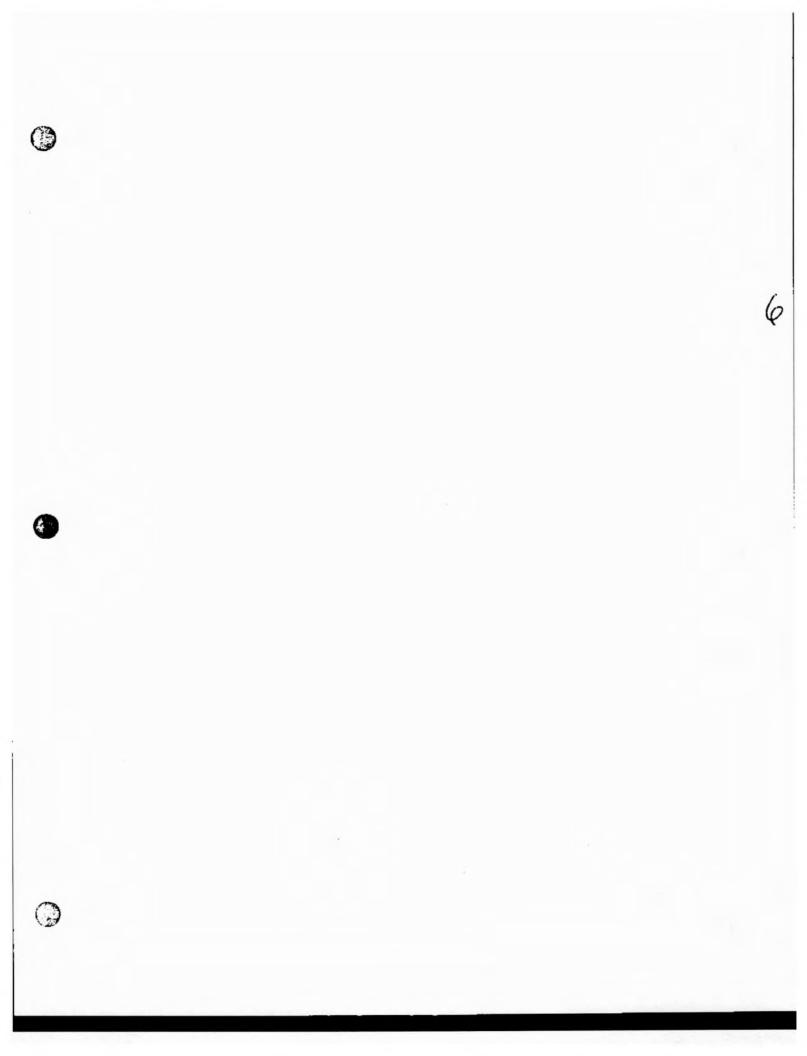
- Analysi: of the cos -effectiveness of converting strategic nuclear submarines to a conventional role
- AoA for eplacement maritim : patrol aircraft
- AoA for eplacement joint command ships
- Affordab lity assessment for the CVN-X
- Assessment of LPD-17 self-defense needs
- AoA for idvanced hand attack missile
- · Assessment of the adequacy o naval mine warfare programs

Tactical Air Forces Division: The division analyzes and evaluates the Department's tactical air forces and associated programs. Its responsibilities include air force air superiority forces, air force multi-role forces, air force close air support forces, naval multi-role forces, naval airborne surveillance forces, and airborne electronic viarfare forces. Programmatic responsibilities include both the aircraft and munition; programs supporting these forces. The division prepares the sections of the DPG providing direction for the execution of tactical air force programs. During the program review, the civition assesses the compliance of service-proposed tactical air force programs with extant polic i and programmatic decisions. For those cases in which compliance issues are discovered, the division develops alternatives to the service proposals for consideration by the Secretary and Dept ty Secretary of Defense. In support of the Under Secretary for Acquisition, Technology, and Logistics, the division prepares guidance for and oversees the confluct of cost-effective ness analysis (also known as AoAs) for major defense acquisition programs supporting tactical air forces; af ordability assessments are also prepared for major programs. The division also conducts studies of selected high-interest issues regarding tactical air forces. Cagoing and recently completed work includes:

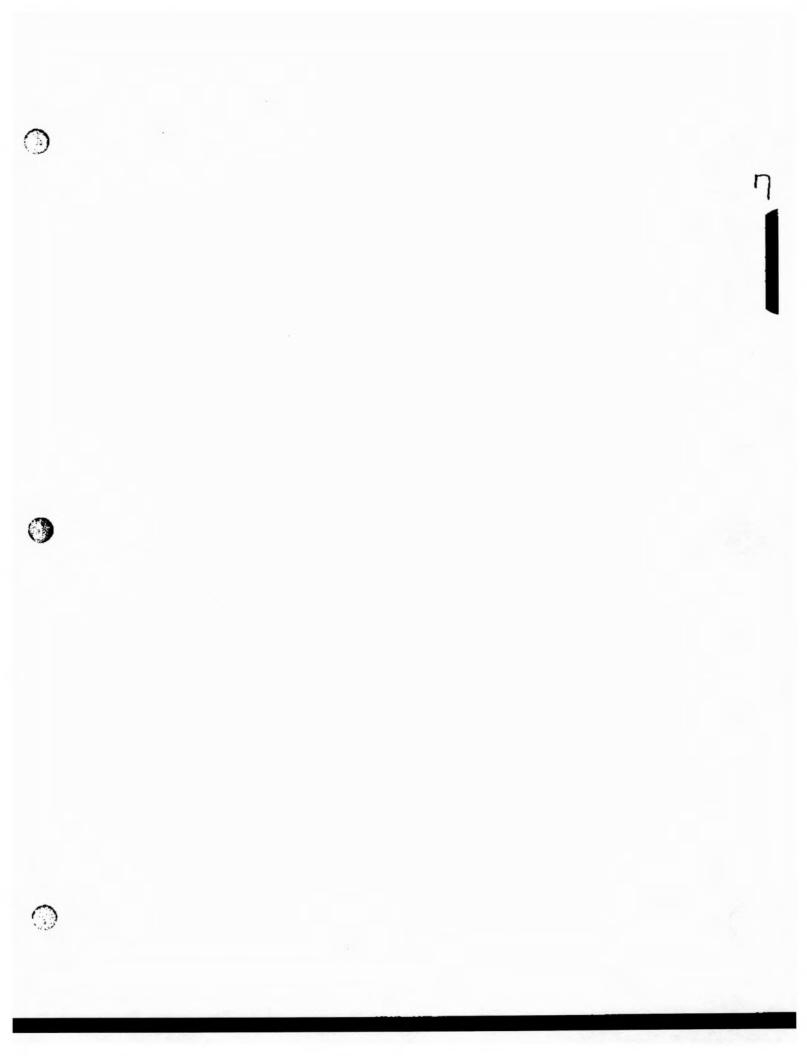
- Affordab lity assessment for tl e F-22
- Assessment of using the Joint Strike Fighter (JSF) as an alternative to F-22
- · Assessment of the adequacy o 'air-delivered munitions programs
- · AoA for . SF
- Assessment of Air Force tactical fighter readiness trends
- Assessment of the costs and effectiveness of stealthy and non-stealthy tactical air forces



PA&E is an integral part of the Under Secretary of Elefense (Comptroller) component. For detailed information concerning chain of command relationships, etc., please refer to the USD(Comptroller) ransition book.



Not applicable to PA&E.



PA&E's budget is nanaged as part of the overal OSD budget. Washington Headquarters Services (WHS) Bi dget and Finance Division allocates and manages the OSD budget for salaries, overtime, raining, etc. Please refer to their input for detailed information.

CHARACTERISTICS OF CURRE NT/AUTHORIZED STAFF

Professional - Clerical Ratio:

128 - 2" (4.4 to 1)

Civilian - Military 'rofessional Ratio: 90 - 31 (2.4 to 1)

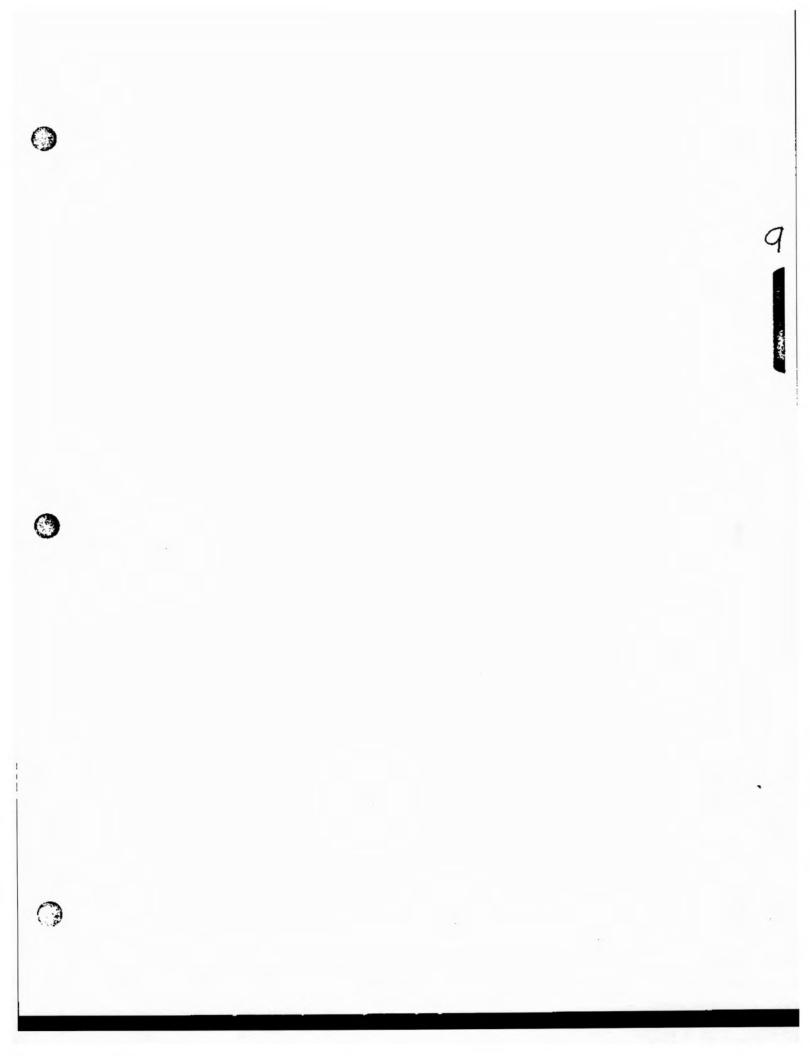
Military Service Distribution:

Army Na /y Air F proe M: rine Corps

8 11 13 6 Total 38

Average Professional Age:

Civilian 46 Military 40 Ov erall



GRADE STRUCTURE

Deputies and Division Director's are Career SES members; civilian analysts range from GS-11 through GM-15.

Actual grade; of civilians are often less than the maximum possible for the position. This is due to the practice of hiring professional personnel below the maximum grade and advancing them as their performance ments and the rules perm t.

Most of the career military officers are Major or Lt. Colonel (or comparable) rank.

Secretarial g ades are GS 11 for the DPA &E. GS-9 for the Principal Deputy, GS 8 for the Deputies, and, with a few exceptions due to ligher level responsibilities, GS-7 for the Divisions.

The current gn-board grade structure is:

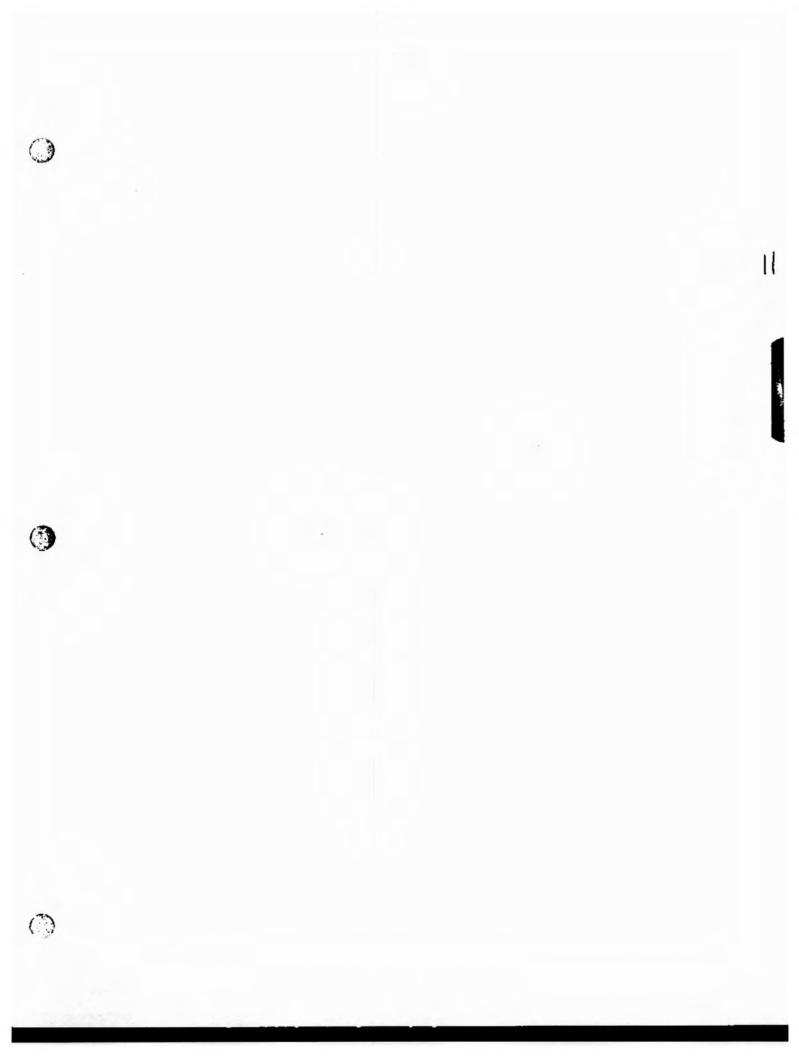
Civilian		Military	
ES 6	1	Colonel/Navy Capt	2
ES-5	4	LtCol/Cdr	24
ES-4	12	Maj/I.Cdr	7
ES 3	3	Capt/Lt, USN	4
ES-2	0		
ES-1	1		
GM-15	55		
GM 14	5		
GM-13	3		
GS-12	6		
GS-11	3		
GS -9	4		
GS-8	9		
GS-7	$\frac{7}{92}$		37

()

MALORS HELL BY PROFESSIONAL STAFF CIVILIAN PROFSSIONAL AND MILITARY

MAJOR	ASSOC	BACHELOR	MASTERS	PhD	TOTAL
Acquisition Logistics	0		2		2.
Architecture - Naval	0	2			2
Biochemistry	S	1			1
Biology	C			3	3
Biology	O	1			1
Business Administration	O	4	18		2.2
Business Administration	0	4	8		1.2
Chemical Biology	0			1	1
Chemistry	0	9	3	3	15
Chemistry	0	:			1
Chemistry Physical	0			2	2
Commerce	0	1			-
Computer Science	0	3			3
Computer Science	0	2.			2.
Computer Science Management	S		2		2
Computer Science Management	3	1			1
Econometrics	0		2		2.
Economics	O	38	14	14	66
Economics	C	2			2
Education	0	2			2
English	0	4			4
Engr - Computer	0	:			:
Engr - Metallurgical	0	1			1
Engr - Ocean	0		2		2
_ Engr - Reliability	0		1		1
Engr Aeronaut/Astro/Aerospace	0	6	9	4	19
Engr Aeronaut/Astro/Aerospace	3	.3	1		4
Engr Chemical	C	2			2
Engr Civil	C	4			4
Engr Electrical	0	3	6		9
Engr Electrical	0	1	1		2
Engr General	0	5			.5
Engr General	Э	7			7
Engr Industrial	0	6	2.	2	10
Engr Industrial	C			2	2
Engr Management	0		3		3
Engr Management	0		1		1
Engr Mechanical	0	7	1		8
Engr Mechanical	0	4			4
Engr Nuclear	0	5	6	9	20
Engr Physics	0	1	3		4
Engr Science	C	5			ż
Engr Systems	C			2	2
Engr Systems	0		1		1
Finance	0		2		2
Finance	0	1	2		3
History	0	: 0			10
History	C	1			:
Human Resources Mana jement	0		1		:
Industrial Engineering	Ĉ.		-		:
info Systems Mgmt	0	2	-		3
Info Systems Mgmt	c				2
Information Technology	0			1	1
	0	1	1	1	2
International Affair:	O	-			2.

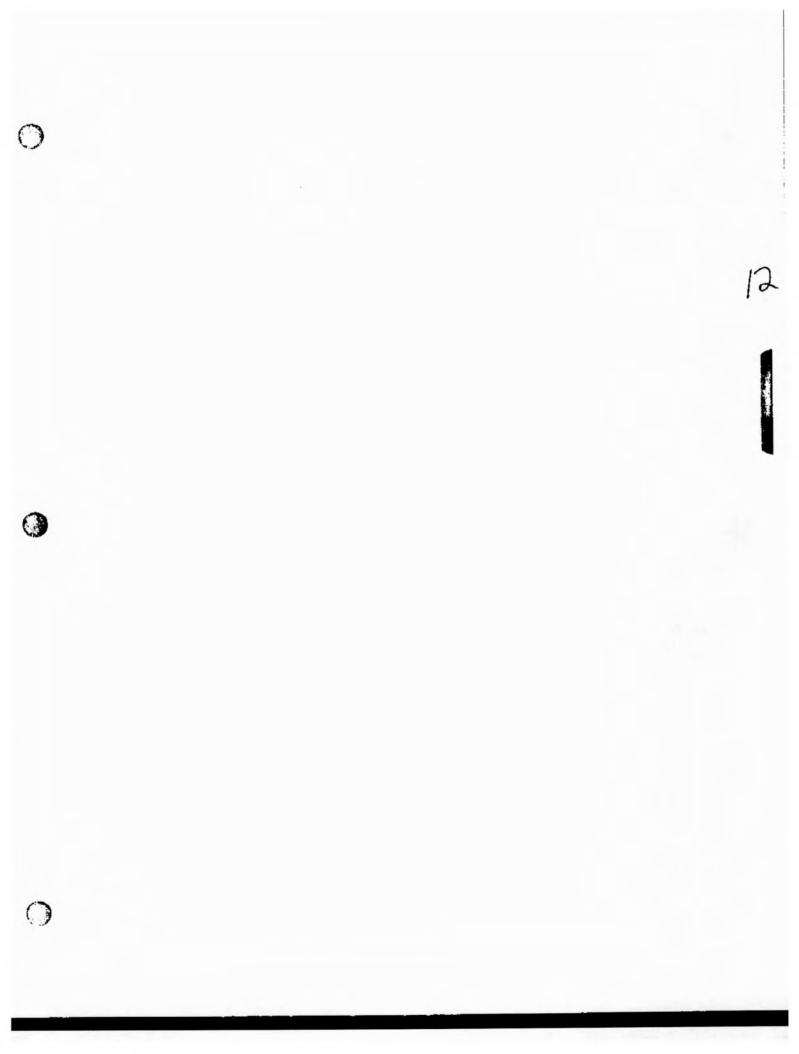
MAJOR	ASSOC	BACHELOR	MASTERS	PhD	TOTAL
International Relations	0			2	2
International Studies	О	1			1
Labor Economics and Economic Dev	0			2	1
Language	0	:			:
Management - Personnal	0		ì		
Management Business	0	.3			3
Management Business	G	1	1		2
Management General	C.		7		7
Management General	G		2		2.
Mathematics	C	21	: 2	12	45
Mathematics	0	2			:
Mathematics - Appliei	0	:	1		2
Mathematics - Applied	0	:			1
National Resource Strategy	0		3		3
National Security Stidies	C		4		4
National Security Studies	C	1			:
Oceanography	С	1			:
Oper Res/Sys Anal	0		:9	4	23
Oper Res/Sys Anal	0	1	1.4	1	16
Operations Analysis-Ing	0		3		3
Physics	0	18	3	7	2.8
Physics	C	2	1		3
Physics - Applied	0			1	1
Physics - Nuclear	0			:	1
Political Science	0	5			5
Public Admin	C		8		8
Public Finance	C		2		2
Public Policy	C		5		5
Science Military	0		1		1
Security Policy Studies	0		1		1
Sociology	0	5	3	:	9
Strategic Studies	O				1
Strategic Studies	C		2		2
Systems Mgmt	C		3		3
Systems Mgmt	C		2		2
Systems Technology	0		1		1
	0	215	194	73	482



UNIVERSITIES ATTENDED BY STAFF CIVILIAN PROFSSIONAL AND MILITARY

UNIVERSITY	ASSOC	BACHELOR	MASTER	PhD	TOTAL
Adelphi University	5	1			:
ir Force Inst of Technology	0		15	1	16
Alabama A&M	5	-			1
American University	C	:			1
Amherst College	C	2			2
Arizona, Univ of	C	1	2	1	3
Bennington College	C	1			1
Berea College	C	2.			2
Boston University	2	1			1
Bradley Univ	0	3			3
Calif Inst of Tech	0	7			7
Calif, Univ/Berkeley	C			1	1
Calif, Univ/Irvine	C			2	2
Calif, Univ/LA	0	5	2		7
California State Polytechnic at San I ii	0	1			1
Carnegie Mellon Univ	0			2	2
Central Florida, Unit of	0	1			1
Central Michigan Uniz	C	-	3		3
Chicago, Univ of	C		6	6	12
Cincinnati, Univ of	0	-	Ü	V	-
Citadel	0	4			4
Colorado, Univ of	0	5	2		7
Columbia Univ	0	2	2	2	4
Cornell Univ	0	2		2	2
Dayton, Univ of	C	۷.	1		
Duke Univ	0		1		1
Embry Riddle Aero Un v	0		3		3
lorida Inst Tech	0		2		2
Florida Tech Univ	0		2		2
Florida, Univ of	5		2		1
George Mason Univers ty	C		2	1	3
George Wash Univ	C	2	9	3	14
Georgetown Univ	0	2	4	2	8
Georgia Tech	0	2	7		9
Harvard College	0	3	,		3
Harvard Univ	0	4	6	5	15
	0	3	6	3	3
Harvey Mudd College		3	=	*3	8
Illinois, Univ of	C		5 5	3	5
Indiana University	0		2		2
Industrial College of the Armad Force:	0	,	2		4
John Carroll Univ		4	2		2
Johns Hopkins Univ	0	- 15	2		6
Kentucky, Univ of	0	3	3		2
Kut.ztown Univ	3	2.	2	2	6
Lehigh Univ	0	2	2	2.	3
London School of Eco: omics	0		.5		
Louisiana Haptist On. v	0	1			1
Marquette Univ	0	3	-		3
Maryland, Univ of	0	7/	5	5	17
Mass Inst of Tech	C	9	14	10	33
Massachusetts, Univ of	С	1			-
Miami, Univ of	G			1	-
(A) Sichigan State Univ	C	2	2		4
Michigan, Univ of	0	1	:3	2.	6
Minnesota, Univ of	0	1			:
Missouri, Univ of	0	1			1
National Defense Uni	0		1		1

NIVERSITY	ASSOC	BACHELOR	MASTER	PhD	TOTAL
ational Taiwan Univ	C	3			3
ow Mexico State Uni	0		1		1
ew York Univ	0	:	-		2
orth Carolina State University	0			2	2
orth Georgia Colleg:	0	1			1
otre Dame, Univ of	0	1			:
berlin College	0	6			6
coldental College	C	4			4
klahoma State Univ	0		1		1
klahoma, Univ of	0	2			2
ld Dominion Univ	0	2	:	1	4
regon State Univ	3		2.	2	4
regon, Univ of	C	:			:
slo, Univ of	0		2		2
xford, Univ of	C	2			2
ennsylvania State University	C	2			2
	C	•	3		3
ennsylvania, Univ of	0	2	.,,		2
ittsburgh, Univ of	0	1			
otomac College	0	1	2	3	3
rinceton	0	5	1	-	6
urdue Univ	0	3	2		1
and Graduate School	0	3	5		8
ensselaer Polytech	0		3		2
hode Island, Univ o	0	2 2			2
hodes College					5
ose Polytechnic Institute	0	5			
utgers Univ	0		3		3
immons College	0	-			
outhern Calif, Univ of	C	1	2		3
tanford Univ	C		4	2	6
tate University of New York (SUNY)	C	2			2.
tevens Inst of Tech	0	2	2		4
yracuse Univ	0		6		6
emple Univ	0	2.			2
ennessee Tech Univ	0	:			:
ennessee, Univ of	0	1	2		3
exas A&M	0	2	1		3
exas, Univ of	0	5	2	2	9
oronto, Univ of	C	3			3
ri-State Univ	0	3			3
roy State Univ	0	1	2		3
unghai Univ	0	2			3 2 3
S AF Academy	0	3			3
S Army Command & General Staff College	0		3		3
S Military Academy	0	17			17
S Nava: Academy	0	10			:1
S Naval FG School	0		11		:1
S Naval War College	C		6		6
	C	5	3	4	12
irginia, Univ of	0	10	3		13
PI			3		
ashburn Univ of Top ka	0	1		2	1
ashington Univ	0	1	**	3	4
					2
					3
			2.		2
illiam & Mary		.3			3
isconsin, Univ of			3		6
ale Univ	0			3	3
	0	215	194	73	482
isconsin, Univ o:	0 0 0 0 0 0 0 0 0	3 215	2 3 2 3	3 3 73	



PA& E Transition Briefing

In preparation for the transition and the Quartennial Defense Review, PA&E has assembled a briefir g describing the Department's long term fiscal outlook, details of key programs and potential shortfalls in them, and alternatives to the current programs. This briefing is available for presentation at d discuss on where needed. The following paragraphs summarize the briefing.

The Depart nent's long-term fiscal overview is described by the Defense Program Projection (DPP), which PA&E develops. The DPF uses the current FYDP program as a baseline, then extrapolates that program twelve those years (two additional FYDP cycles) to predict long-term spending needs. Focusing on major procurement programs, the DPP compares the expected service lives of existing force elements to long-term force level needs, to evaluate whether current procurement programs are adequate or whether large bills may be looming beyond the FYDP. In addition, the DPF provides are assessment of the adequacy of operations and support funding, which may signal a hortfalls in readiness funding. The DPP has been a key component of many Department analyses, including affordability analyses for acquisition programs, the annual program review process, and, particularly, the 1997 Quadrennial Defense Review.

The PA&E priefing also describes key programs within the Department. It highlights several of the most important programs - those for which near-term decisions will be needed or for which substantial fiscal shortfalls might be immight. These programs are likely to be ones that will demand the most immediate attention. The briefing then goes beyond those programs to describe all of the important programs in the Department. These include:

- modernization programs and their RikD and procurement funding and quantities
- readine is program; and important in that we aimed at sustaining and improving readine is levels
- quality-of-life issues, such a medical and benefits.

For each program, the brief provides a single-slide discription of the subject, possible issues associated with it, the current funding profile, and, if appropriate, alternatives to the current program that might warrant consideration.

Finally, beyond the one-page sur maries in this brief, PA&E has assembled a large library describing - in detail - the major Department programs. Briefings are available on topics including: readiness; medical; missile diffense; TACAIR; Army transformation and modernization; ship building; space and attellite programs; intelligence, surveillance, reconnaissance; and information assurance and information technology.



