



DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
NAVAL AIR SYSTEMS COMMAND HEADQUARTERS
47123 BUSE ROAD, UNIT # _____
PATUXENT RIVER, MARYLAND 20670-1547

IN REPLY REFER TO

5400
Ser AIR 7.0/00-178

From: Commander, Naval Air Systems Command

AUG 7 2000

Subj: NAVAL AVIATION SYSTEMS TEAM ORGANIZATION MANUAL

Encl: (1) NAVAIR TEAM Organization Manual

1. Enclosure (1) reflects the latest approved Organization Breakdown Structure (OBS). This document is a major move forward to a single TEAM organizational structure.
2. There are several organizational changes that have not been brought into the context of this document due to timing. Known modifications that are in process include the Business/Financial Management Community (B/FMC) coding and functional descriptions; Program Executive Office (PEO) program transfers; and direct reporting changes for Deputy Equal Employment Opportunity (EEO) Officer, Public Affairs, Corporate Security and Chief Information Officer (CIO). The goal is to have these modifications in place by 1 October 2000.
3. Any comments or concerns may be shared with Audrey MacKnight, Strategic Resource Management Support (AIR 7.1.1) on 301-757-3662

A handwritten signature in black ink, appearing to read "P. O'Dell".

PAMELA O'DELL
By direction

Distribution:

AIR 00

AIR 1.0

AIR 2.0

AIR 3.0

AIR 4.0

AIR 5.0

AIR 6.0

AIR 7.0

AIR 8.0

COMNAWCAD

COMNAWCWD

CO, NADEP, Cherry Point

CO, NADEP, North Island

CO, NADEP, Jacksonville

CO, NAWCTSD

PEO(A)

PEO(T)

PEO(W)

PEO(JSF)

CBO

ESPO



DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
RADM WILLIAM A. MOFFETT BUILDING
47123 BUSE ROAD, BLDG 2272
PATUXENT RIVER, MARYLAND 20670-1547

IN REPLY REFER TO

NAVAIRINST 5400.1C
AIR-7.1.1.2
7 Aug 00

NAVAIR INSTRUCTION 5400.1C

From: Commander, Naval Air Systems Command

Subj: NAVAL AVIATION SYSTEMS TEAM ORGANIZATION MANUAL

Ref: (a) NAVAIRINST 5400.122A
(b) OPNAVNOTE 5450 of 7 May 96
(c) OPNAVINST 5450.214 (hereby canceled)
(d) SECNAVINST 5400.15A
(e) NAVAIRINST 5216.1G

Encl: (1) Naval Aviation Systems Team Organization Manual

1. Purpose. To issue a Naval Aviation Systems TEAM (TEAM) Organization Manual.

Enclosure (1), reflects the current approved TEAM-wide Organization Breakdown Structure (OBS).

2. Cancellation. This instruction supersedes NAVAIR Instruction 5400.1B of 24 May 1979 and its Change Transmittals (CH) -1 through 9), also NAVAIR Instruction 5400.152 of 18 Jul 1997. Since there are major revision changes are not indicated

3. Scope. This instruction applies to all TEAM sites, Naval Air Systems Command Headquarters (NAVAIRHQ), their Business Units (BUs), and the Naval Aviation Program Executive Officers (PEOs); Program Executive Officer for Joint Strike Fighter (PEO(JSF)), Program Executive Officer Tactical Aircraft (PEO(T)), Program Executive Officer for Air Anti-Submarine Warfare, Assault and Special Mission (PEO(A)), and the Program Executive Officer for Cruise Missiles and Joint Unmanned Aerial Vehicles (PEO(CU)).

4. Background. In 1994, the TEAM structure and codes were revised to reflect Competency Aligned Organization (CAO)/PEOs. Section I of (enclosure (1)) identifies the approved, modified Naval Air Systems Command (NAVAIR) mission (reference (b)); Section II of (enclosure (1)) reflects the approved NAVAIR functions and tasks (reference (c)); Section III of (enclosure (1)) identifies the organization concept and TEAM organization elements; Section IV of (enclosure (1)) outlines delegation of authority guidelines; Section V of (enclosure (1)) identifies the authority for the establishment of TEAM operating policies and objectives; and Section VI of (enclosure (1)) identifies the seven digit coding structure for TEAM organization codes.

7 Aug 00

5. Action

a. Changes may be initiated by the competencies/PEOs and forwarded through the approval chain; however, revisions to this manual can only be incorporated once approval is obtained from the appropriate National Level Competency/PEO leader.

b. Resource Management Coordination and Monitoring (AIR-7.1.1.2) will provide procedural guidance, professional advice, and assistance in developing changes to the official OBS and functional assignments stated herein and will publish approved changes. Procedures for organizational changes are outlined in reference (a).

6. Review. AIR 7.1.1.2 shall annually review the contents herein and provide recommendations for changes and additions/deletions to appropriate National Level Competency Leaders.



PAMELA O'DELL

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**NAVAL AVIATION SYSTEMS TEAM
(TEAM)
ORGANIZATION MANUAL**



JUNE 2000

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ACRONYM LISTING

3M	Maintenance and Material Management
A/A	Air-to-Air
AAW	Anti-Air Warfare
ABMA	Aviation Boatswains Mate Association
ACAP	Air Common Acoustic Processor
ACCB	Aircraft Configuration Control Board
ACTS	Aircrew Combat Training System
ADL	Advanced Distributed Learning
ADP	Automated Data Processing
AEP	Affirmative Employment Program
AEP	Allison Electrophoretic Process
AEWTR	Aircrew Electronic Warfare Training Range
AFAE	Air Force Acquisition Executive
AFB	Air Force Base
AFP	Approval for Full Production
AIA	Aerospace Industries Association
AJ/LPI	Anti-Jam/Low Probability of Intercept
ALEP/FLTS	Aircraft Life Extension Program/Fatigue Life Tracking System
ALP	Approval for Limited Production
ALRE	Aircraft Launch and Recovery
AMDS	AV-8B Mux Bus Data System
AoA	Analyses of Alternatives
AOP	Annual Operating Plan
APEO	Assistant Program Executive Officer
APEOL	Assistant Program Executive Office for Logistics
API	Aircraft Platform Interface
APIT	Aircraft Process Improvement Team
APM	Antenna Pattern Measurements
APMSE	Assistant Program Manager for Systems Engineering
ARB	Acquisition Review Boards
ARCC	AEGIS Radio Communications Center
ARDS	Advanced Range Data System
ARM	Anti-Radiation Missile
ASE	Society of Automotive Engineers
ASET	Avionics System Engineering Team
ASIR	Aeronautic Ship Installation Representative
ASN(RDA)	Assistant Secretary of the Navy (Research, Development, and Acquisition)
ASP	Acquisition Systems Protection
ASP	Air Systems Program
ASPECTS	Automated Spectrum Planning, Engineering, Coordination, and Tracking System
ASTM	American Society for Testing and Materials
ASV	Aviation Separation Video
ASUW	Anti-Surface Warfare
ASW	Anti-Submarine Warfare
ATC	Air Traffic Control
ATC&LS	Air Traffic Control and Landing Systems
ATD	Advanced Technology Demonstration
ATE	Automatic Test Equipment
ATEF	Aircraft Test and Evaluation Facility
ATR	Automatic Target Recognition
ATSP0	Advanced Technology Support Program Office

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AUR	All Up Rounds
AWP	Acquisition Workforce Program
BFM	Business/Financial Management
BPA	Blanket Purchase Agreement
BPR	Business Process Reengineering
BTR	Below Threshold Reprogrammings
BU	Business Unit
BUPERS	Bureau of Personnel
CAAC	Counseling and Assistance Center
CAAS	Contract and Advisory Services
CACT	Command Aircraft Crew Training
CAFSU	Carrier and Airfield Service Unit
CAIG	Cost Analysis Improvement Group
CALSTD	Calibration Standards
CAO	Competency Aligned Organization
CASREP	Casualty Report
CASS	Consolidated Automated Support System
CBO	Corporate Business Office
CBR	Chemical, Biological and Radiological
CBT	Computer Based Training
CCM	Counter-Countermeasures
CFA	Cognizant Field Activity
CFD	Computational Fluid Dynamics
CFMTP	Centralized Financial Management Trainee Program
CIM	Corporate Information Management
CIP	Component Improvement Program
CMC	Commandant of the Marine Corps
CMEO	Command Managed Equal Opportunity
CNO	Chief of Naval Operations
CNR	Chief of Naval Research
CO	Commanding Officer
COMANVAIRSYSCOM	Commander, Naval Air Systems Command
COMDTCOGARD	Commandant, Coast Guard
COMS	Contractor Operation and Maintenance of Simulators
COMSEC	Communications Security
COTS	Commercial Off-The-Shelf
CSA	Configuration Status Accounting
CSE	Command Standards Executive
CSI	Contractor Simulator Instruction
CV	Carrier Vessel
CVN	Carrier Vessel Nuclear
D&E	Dispensers & Expendable
DACM	Director, Acquisition Career Management
DAPS	Defense Priorities and Allocation System
DAWIA	Defense Acquisition Workforce Improvement Act
DBOF	Defense Business Operating Fund
DC	Display Computer
DCMAO	Defense Contract Management Area Officer
DCPDS	Defense Civilian Personnel Data System
DISAM	Defense Institute of Security Assistance Management
DM	Depot Maintenance
DM/MS	Diminishing Manufacturing Sources and Material Shortages
DOD	Department of Defense
DON	Department of the Navy
DPM	Designated Program Manager

DRPM	Direct Reporting Program Manager
DSI	Digital Simulation Internet
EASU	Expeditionary Airfield Service Unit
EC	Electronic Combat
ECM	Electronic Countermeasure
ECP	Engineering Change Proposal
ECS	Environmental Control Systems
EDA	Excess Defense Articles
EDT	Externally Directed Team
EEO	Equal Employment Opportunity
EER	Extended Echo Ranging
EETS	Electrical Equipment Test Set
EMC	Electromagnetic Compatibility
EMCON	Emission Control
E&MD	Engineering and Manufacturing Development
EMI	Electromagnetic Interference
EMSP	Enhanced Modular Signal Processor
EMT	Electromagnetic Transients
EMV	Electromagnetic Vulnerability
EO	Electro-optical
EOB	Expense Operating Budget
EPMAC	Enlisted Personnel Management Activity Center
ERL	Equipment Requirements List
ERP	Enterprise Resource Planning
ESD	Electrostatic Discharge
ESL	Equipment Shortage List
ESPO	Enterprise Solutions Program Office
ESSM	Evolved Sea Sparrow Missile
ET	Enterprise Team
ETS	Engineering Technical Services
EVM	Earned Value Management
EW	Electronic Warfare
EWS	Electronic Warfare Surveillance
EXCOM	Exterior Communications
FAA	Federal Aviation Administration
FACSFAC	Fleet Area Control and Surveillance Facility
FCT	Foreign Comparative Test
FIP	Federal Information Processing
FITREP	Fitness Report
FLIR	Forward Looking Infrared (Radar)
FMS	Foreign Military Sales
FOIA	Freedom of Information Act
FS	Fleet Support
FSC	Family Services Center
FSC&D	Fuel Systems, Controls and Diagnostics
FST	Fleet Support Team
FTS	Flight Termination System
GCS	Guidance Control Section
GFE	Government Furnished Equipment
GGI&S	Global Geospatial Information and Services
GO/CO	Government-Owned Contractor-Operated
GPETE	General-Purpose Electronic Test Equipment
GPS	Global Positioning System
GSA	General Services Administration
GSE	Ground Support Equipment

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HARM	High-Speed Antiradiation Missile
HERF	Hazards of Electromagnetic Radiation to Fuels
HERO	Hazards of Electromagnetic Radiation to Ordnance
HERP	Hazards of Electromagnetic Radiation to Personnel
HIRF	High Intensity Radiated Fields
HLA	High Level Architecture
HMR	Headquarters Modification Request
HONA	Health of Naval Aviation
HPM	High Power Microwave
HPTET	High Power Transient Electromagnetic Testing
HVOF	High Velocity Oxygen Fuel
I.M.P.A.C.	International Merchant Purchasing Account Card
ID	Interface Device
IDS	Identification Systems
IETM	Interactive Electronic Technical Manual
IFF	Identification Friend or Foe
IG	Inspector General
IHPTET	Integrated High Performance Turbine Engine Technology
ILA	Integrated Logistics Assessment
ILS	Integrated Logistics Support
ILS	Integrated Logistics Support
IM	Information Management
INFOSEC	Information Security
INFOSYSSEC	Information Systems Security
INS	Inertial Navigation Systems
IP	International Program
IPMS	Integrated Production Management System
IPT	Integrated Program Team
IR	Infrared
IRIG	Inter Range Instrumentation Group
IRST	Infrared Search and Track
IS	Information Systems
ISAR	Inverse Synthetic Aperture Radar
ISD	Instructional Systems Analysis and Development
ISE	In-Service Engineering
ISO	International Organization for Standardization
ISP	Industrial Strategic Plan
ISS	In-Service Support
IT	Information Technology
IW	Info Ware
JACG	Joint Aeronautical Commander's Group
JAG	Judge Advocate General
JANNAF	Joint Army, Navy, NASA, Air Force
JCALs	Joint Continuous Acquisition and Life Cycle Support
JCO	Joint Cockpit Office
JCS	Joint Chiefs of Staff
JDMAG	Joint Depot Maintenance Analysis Group
JMPS	Joint Mission Planning System
JUDI	Joint Universal Data Interpreter
LADAR	Laser Detection and Ranging
LAMPS	Light Airborne Multi-Purpose System
LAN	Local Area Network
LEM	Logistics Element Management
LM	Logistics Manager
LMTC	Lead Maintenance Technology Center

LOR	Level of Repair
LRIP	Low Rate Initial Production
LSA	Logistics Support Analysis
MATCAL	Marine Air Traffic Control and Landing System
MC	Mission Computer
MESA	Missile Engagement Simulation Arena
METCAL	Navy Metrology and Calibration
METOC	Metrology and Oceanography
MGFEL	Master Government Furnished Equipment List
MILCON	Military Construction
MIS	Maintenance Interservice Support
MISIL	Management Information System for International Logistics
MISO	Maintenance Interservice Support Officer
MNS	Mission Need Statement
MP&T	Manpower, Personnel and Training
MP&TS	Manpower, Personnel, and Training Systems
MPM	Mission Planning Modules
MRPII	Manufacturing Resource Planning
MSI	Multi-Source Integration
MTP	Manage to Payroll
MUL	Master Urgency List
NAE	Navy Acquisition Executive
NAMP	Naval Aviation Maintenance Program
NAPRA	Naval Air Pacific Repair Activity
NATO	North Atlantic Treaty Organization
NATOPS	Naval Air Training and Operating Procedures Standardization
NAVAIR	Naval Air Systems Command
NAVAIRHQ	Naval Air Systems Command Headquarters
NAVAIRTECHDATAENGSERV COM	Naval Air Technical Data and Engineering Service Command
NAVAIRWARCENACDIV	Naval Air Warfare Center Aircraft Division
NAVAIRWARCENWPNDIV	Naval Air Warfare Center Weapons Division
NAVAVNDEPOT	Naval Aviation Depot
NAVCOMPT	Comptroller of the Navy
NAVICP	Naval Inventory Control Point
NAVSEA	Naval Sea Systems Command
NAVSTO	Naval Aviation Science and Technology Office
NAVSUP	Naval Supply Systems Command
NCW	Network Centric Warfare
NFCWUS	Navy Frequency Coordinator Western U.S.
NIMA	National Imagery and Mapping Agency
NIS	Naval Investigative Service
NORs	Notification of Revisions
NRC	Non-Recurring Charges
NSAP	Navy Science Advisory Program
NSTEP	Navy Scientist Training Exchange Program
NTSP	Navy Training System Plans
NWCF	Navy Working Capital Fund
O&M	Operations and Maintenance
O&M,N	Operations and Maintenance, Navy
O&S	Operations and Support
OBS	Organization Breakdown Structure
OFF	Operational Flight Program
ONR	Office of Naval Research
OPNAV	Office of the Chief of Naval Operations

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OPSEC	Operations Security
OSD	Office of the Secretary of Defense
OSH	Occupational Safety & Health
OSIP	Operational Safety Improvement Program
OTS	Outdoor Test Site
PC	Project Coordinator
PCO	Procurement Contracting Officer
PEO	Program Executive Officer
PEO(A)	Program Executive Officer, Air Anti-Submarine Warfare, Assault and Special Mission Programs
PEO(CU)	Program Executive Officer, Cruise Missiles and Joint Unmanned Aerial Vehicles
PEO(JSF)	Program Executive Officer, Joint Strike Fighter
PEO(T)	Program Executive Officer, Tactical Aircraft Programs
PERSEC	Personnel Security
PHS&T	Packaging, Handling, Storage, and Transportation
PID	Procurement Initiation Document
PIO	Pilot Induced Oscillations
PLT	Product Line Team
PM	Program Manager
PMA	Program Manager Air
PMB	Propulsion Management Board
PMC	Program Management Competency
PMR	Procurement Management Review
POSH	Prevention of Sexual Harassment
PPC	Power Plant Change
PPD	Program Planning Document
PPEP	Propulsion Power and Engineering
PPEP	Process and Productivity Enhancement Program
PRT	Physical Readiness Training
PSEF	Propulsion Systems Test Facility
PST	Product Support Team
QA	Quality Assurance
QDR	Quality Deficiency Report
QMB	Quality Management Board
R,M&BIT	Reliability, Maintainability and Built-In-Test
RAM	Rolling Airframe Missile
RAN/DF	Requests for Authority to Negotiate and Decision Finding
RCM	Reliability Centered Maintenance
RCS	Radar Cross Section
R&D	Research and Development
RDT&E	Research, Development, Test, and Evaluation
RDT&E,N	Research, Development, Test and Evaluation, Navy
RF	Radar Frequency
RFD	Request for Deviation
RFM	Requiring Financial Manager
RFW	Request for Waiver
RISPO	Range Instrumentation Systems Program Office
RRL	Radar Reflectivity Laboratory
RTIC	Real Time Information in the Cockpit
RTT	Real Time Targeting
S&E	Scientists and Engineers
S&T	Science and Technology
SAC	Standard Aircraft Characteristics
SAE	Society of Automotive Engineers

SAP	Simplified Acquisition Procedure
SAP	Special Access Program
SARTIS	Shipboard Advanced Radar Target Identification System
SASP	Single Advanced Signal Processing
SBIR	Small Business Innovation Research
SCI	Sensitive Compartmented Information
SDRs	System Design Requirements
SE	Support Equipment
SECNAV	Secretary of the Navy
SECs	Support Equipment Changes
SMO	Sustainment Management Office
SMS	Stores Management System
SNI	San Nicolas Island
SOW	Statements of Work
SPAWAR	Space and Naval Warfare Systems Command
SPTC	Satellite Production Test Center
SPW	Stores, Planning and Weaponing
SRA	Shop-Replaceable Assemblies
SSA	Software Support Activity
SSA	Source Selection Authority
SSEB	Source Selection Evaluation Board
STU	Secure Telephone
T&E	Test and Evaluation
TACAIR	Tactical Aircraft
TACMAN	Tactical Manual
TACTS	Tactical Aircrew Combat Training System
TAMPS	Tactical Aircraft Mission Planning System
TD	Technical Directive
TDD	Target Detecting Device
TDS	Tactical Data System
TDSA	Technical Directive Status Accounting
TEAM	Naval Aviation Systems Team
TEMP	Test and Evaluation Master Plans
TERIB	Test and Evaluation Reliance and Investment Board
TMS	Type/Model/Series
TOC	Total Ownership Costs
TPDR	Technical Publication Discrepancy Report
TPG(STK)	Technology Planning Group for Strike
TPS	Test Program Set
TPT	Technology Project Teams
TQL	Total Quality Leadership
TSSA	Trainer Software Support Activity
TTEP	Training and Training Equipment Plans
UAV	Unmanned Aerial Vehicle
UAV	Unmanned Aerial Vehicle
UCC	Universal Control Consoles
UHF	Ultra High Frequency
UIC	Unit Identification Code
USAF	United States Air Force
USN	United States Navy
V/STOL	Vertical Short Take-Off Landing
VSV	Virtual Secondary Vendor
VV&A	Verification, Validation, and Accreditation
WAFC	Western Area Frequency Coordinator
WAN	Wide Area Network

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WPS
WRA
WSPD

Weapons Planning System
Weapon Replaceable Assemblies
Weapons Systems Planning Document

NAVAL AVIATION SYSTEMS TEAM ORGANIZATIONAL MANUAL

PREAMBLE

1. The TEAM is comprised of: NAVAIRHQ, PEO(A), PEO(T), PEO(CU), and PEO(JSF) and the BUs; Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Naval Aviation Depot (NAVAVNDEPOT), Cherry Point, North Carolina, NAVAVNDEPOT, Jacksonville, Florida, NAVAVNDEPOT, North Island, California, Naval Air Pacific Repair Activity (NAPRA), Naval Air Technical Data and Engineering Command (NAVAIRTECHDATAENGSERVCOM); and the Naval Inventory Control Point (NAVICP).
2. The TEAM Organization Manual includes the official mission and related responsibilities, authority, organization, and relationship of NAVAIR as assigned or directed by higher authority, or as prescribed by the Commander, Naval Air Systems Command (COMNAVAIRSYSCOM). The functional contents of the manual represent the current assignment of functions and delegation of authority by the Commander to Deputy Commanders, Assistant Commanders, Competency Leaders, Comptroller, and various other entities.
3. Structural charts and functional statements were derived from the Organization Breakdown Structure (OBS) developed and approved by the National Level Competency Leaders. They constitute the charters of the respective organizations to discharge their assigned portions of the total mission. The charters in turn, are complemented by appropriate NAVAIR instructions and notices issued following the Navy Directive Issuance System for more detailed information and guidance on TEAM policy and procedures.
4. The seven-digit organizational code is derived from the OBS and is used throughout this manual. The code's seventh place is blank in this directive; however, when the alpha character is added it will designate site location. The PEO/Program Manager Air (PMA) codes are currently reflected within the 1.0.

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SECTION I

MISSION

To develop, acquire, and support naval aeronautical and related technology systems in support of the operating forces and to perform such other functions and tasks as may be assigned by higher authority.

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SECTION II

FUNCTIONS AND TASKS OF COMNAVAIRSYSCOM

1. Functions. In carrying out the mission, COMNAVAIRSYSCOM performs the following functions, which are delineated in reference (c).

a. Mission Areas. Supervises and directs all assigned functions, programs, and activities.

b. Staff Area

(1) Directs and supervises the performance of program management offices in the management of systems and equipment acquisition programs. Establishes and disestablishes Program Manager (PM) offices subject to approval by higher authority as required.

(2) Provides realistic cost estimates and risk assessment for the planning, programming, and budgeting of systems and equipment acquisition and support.

(3) Controls changes in the configuration of assigned systems, equipment, and computer software during development, production, and service use, subject to the military performance requirements and characteristics of the Chief of Naval Operations (CNO) or Commandant, Marine Corps (CMC).

(4) Coordinates and directs the planning, development, acquisition, installation, and support of aircraft, airborne, and air-launched weapons, their support and related systems, and equipment following operational requirements.

(5) Directs and reviews the formulation and presentation of NAVAIR inputs to the Department of the Navy (DoN), Joint Chiefs of Staff (JCS), and programming systems.

(6) Maintains liaison, exchanges information, and coordinates as required with CMC, the Commandant, Coast Guard (COMDTCOGARD), and with counterparts in other military departments, defense agencies, and other federal agencies; develops agreements and conducts programs for cooperative inter-service support.

(7) Advises CNO, CMC, and COMDTCOGARD as appropriate, on the technical, logistic, economic, and schedule implications of programs being executed by NAVAIR.

(8) Develops and promulgates policies for acquisition and life cycle management of computers and computer software in assigned weapons systems.

(9) Performs Research, Development, Test, and Evaluation (RDT&E) functions in response to CNO, CMC, COMDTCOGARD, and the Chief of Naval Research requirements.

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(10) Develops and manages information systems to support assigned functions.

(11) Develops, reviews, and issues acquisition strategy for ongoing programs and delineates policy within guidelines for higher authority.

(12) Coordinates and monitors policy compliance for aviation fleet maintenance programs. Provides staff support to the CNO (Air Warfare) for planning, formulation, and coordination of policy and requirements for aviation fleet maintenance.

c. Personnel Support Areas. Provides program management through NAVAIR for civilian personnel programs such as wage and classification, staffing and recruitment, Equal Employment Opportunity (EEO), employee development, employment of the handicapped, career development, employee relations, and performance programs. Informs CNO, CMC, and COMDTCOGARD, and other Navy commands and officials as appropriate, on manpower and training requirements for military personnel in the operations, maintenance, and support of systems and equipment provided by NAVAIR.

d. Financial Services Area. Plans, directs, and reviews the formulation and justification of budgets and apportionment and monitors performance against plan during budget execution.

e. Inter-Command/Intra-Command Support

(1) Plans and allocates military and civilian manpower, funds, and other resources; assigns workloads and evaluates performance of all components of NAVAIR.

(2) Provides using commands with technical guidance on the operation and logistic support for all assigned weapons systems and support systems and equipment.

(3) Provides service and support to Navy, Marine Corps, and Coast Guard (COGARD) commands as required in functional areas related to NAVAIR material, supply, finance, facilities, and other technical or professional matters as appropriate.

f. Staff and Inter-Command/Intra-Command Support

(1) Provides policy direction, management, and planning of the Navy elements of the Department of the Defense (DoD) Major Range and Test Facility Base.

(2) Provides policy direction, acquisition, and life cycle management of Navy aerial and surface targets, and range instrumentation for fleet training ranges.

(3) Directs and coordinates planning for readiness, mobilization, industrial preparedness, and crisis management.

(4) Performs as internal command function and additionally, performs staff assistance, Navy-wide management, or services in any of the following areas, not the chartered responsibility of another command, as assigned by the Secretary of the Navy (SECNAV) or CNO:

- (a) facility planning, programming, and maintenance;
- (b) family housing;
- (c) management of shore activities, industrial management of depot maintenance activities, administration of DoD policies on manufacturing methods and technology and metrication;
- (d) management improvement programs;
- (e) security assistance programs;
- (f) international technology transfers and exports control;
- (g) maintenance and material management systems;
- (h) command management information systems;
- (i) contracting for material and services;
- (j) military personnel planning;
- (k) natural resources and environmental protection and environmental protection data systems;
- (l) energy resource management, research, and development, industrial energy requirements and conservation, and industrial material priorities and allocations;
- (m) oil analysis, metrology-calibration, and similar technical services.
- (n) technical information;
- (o) electromagnetic compatibility;
- (p) Approval for Full Production (AFP) and Approval for Limited Production (ALP);
- (q) human factors engineering program;
- (r) safety programs, including occupational safety and health standards;

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(s) configuration management;

(t) approval of development proposals and test and evaluation plans, as assigned ship suitability.

(5) Acts as lead systems command for the following:

(a) surface and airborne targets;

(b) Aircraft Maintenance and Material Management (3M);

(c) Joint Depot Maintenance Analysis Group (JDMAG);

(d) Maintenance Inter-service Support (MISDO);

(e) Navy ranges;

(f) microcircuit obsolescence;

(g) airborne mine countermeasures;

(h) technical manual program;

(i) human factors program;

(j) civilian logistics support standard practices and procedures:

1. Level of Repair (LOR); and

2. Logistics Support Analysis (LSA).

3. Tasks. COMNAVAIRSYSCOM performs such tasks as assigned and approved by proper authority.

SECTION III

ORGANIZATION

1. Concept. The TEAM organization follows a concept of an Integrated Program Team/Competency Aligned Organization (IPT/CAO). Operations are product-focused with products managed by PM-led multi-disciplined IPTs. These IPTs integrate NAVAIR's eight competencies: Program Management (1.0), Contracts (2.0), Logistics (3.0), Research and Engineering (4.0), Test and Evaluation (5.0), Industrial Operations (6.0), Corporate Operations (7.0), and Shore Station Management (8.0). These competencies, in support of the IPTs, provide the required skills, knowledge, facilities, and processes to satisfy program and other demands. Commanders, Deputy Commanders, Assistant Commanders, Competency Leaders, and the Comptroller discharge their respective assigned responsibilities through the TEAM as extensions of the COMNAVAIRSYSCOM, total responsibility and not as autonomous authorities or organization.

2. The major organization elements comprising the TEAM are as follows:

- a. Office of the Commander;
- b. Vice Commander;
- c. Deputy Commander;
- d. Program Executive Officers (PEO);
- e. Designated Program Managers (DPM); and
- f. Eight competencies (see above).

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SECTION IV

DELEGATION OF AUTHORITY

1. Upon issuance of reference (e), the Commander has delegated authority to the Vice Commander, Deputy Commander, Deputy Commander for Acquisition and Operations, Assistant Commanders, and the Comptroller to grant "By direction" signature authority to other personnel within their respective assigned responsibilities.
2. Managers of designated programs are delegated executive authority as specified in their individual program charters.

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SECTION V

POLICIES AND RELATIONSHIPS

1. Operating policies and objectives for the TEAM are established by the Commander, in collaboration with the Naval Aviation PEOs, or at the direction of the Commander and are implemented by the heads of the major organizational elements of BUs with regard to their applicability to the personnel and functions under their command.
2. Execution of the Commander's total responsibility is dependent upon the effective and integrated efforts of all elements of management within the TEAM. The coordinated development of the TEAM programs and the guidance for acquisition workload execution within the TEAM management structure is provided by the 1.0 competency.

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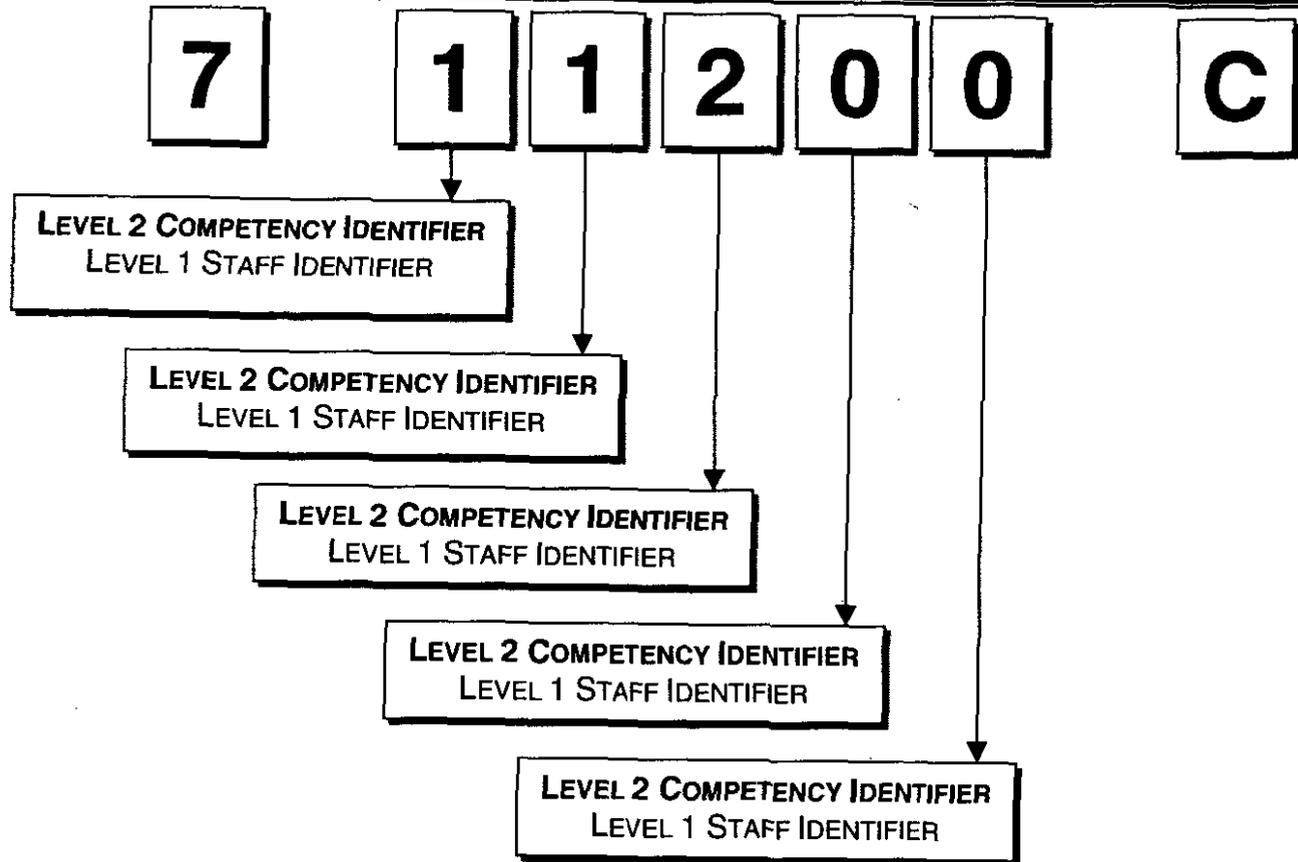
SECTION VI

CODING SYSTEM

NOTES & GUIDELINES

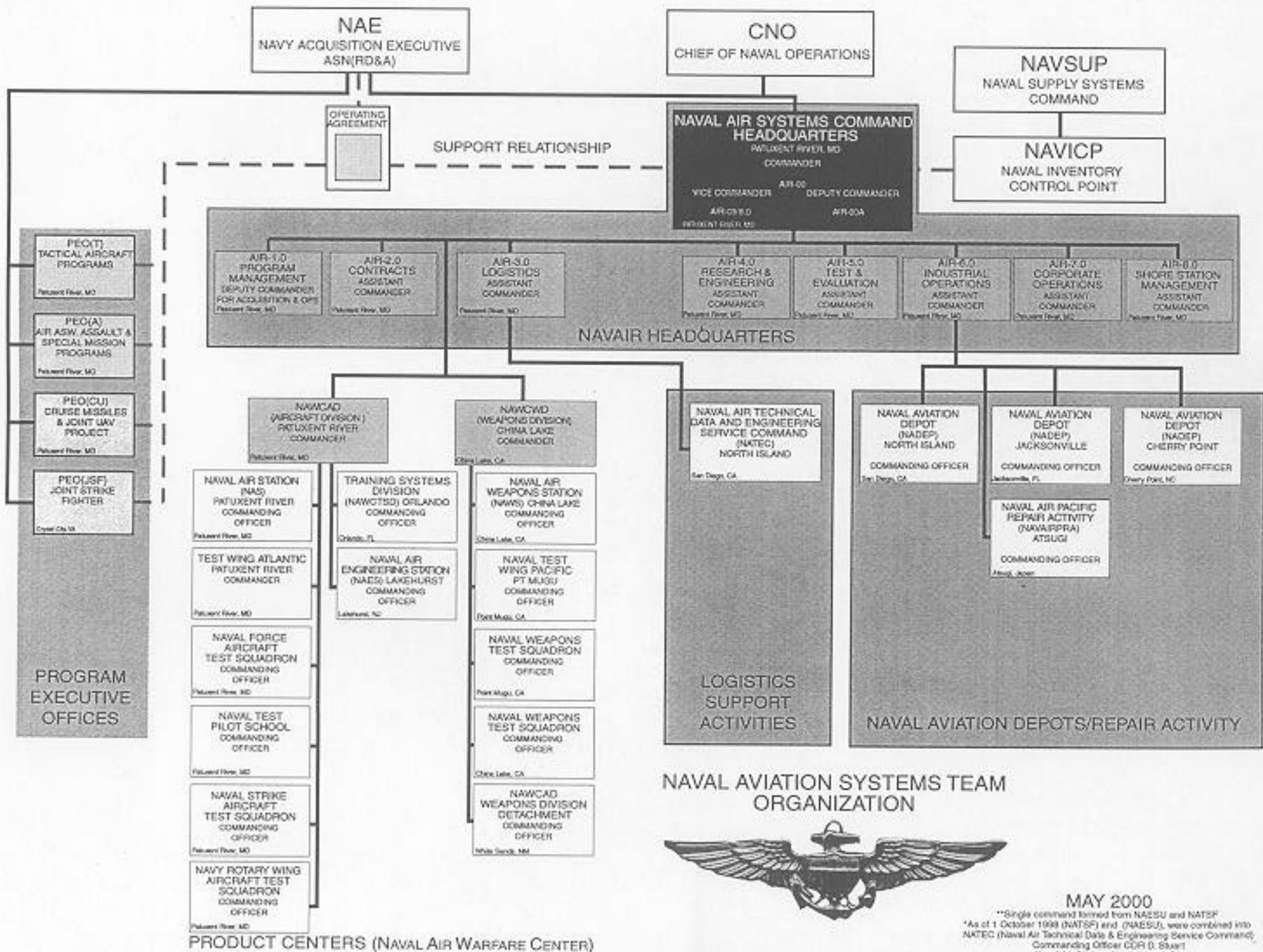
- The system is designed to have a common baseline for data gathering of common business processes.
- All 7 digits must always be filled
- Alphas will be capitalized (I and O not used)
- Alphas A & B reserved for Deputy positions
- Alphas J-R will be used to identify competency structure beyond 9.
- Alpha C-H and T-V will be used as Staff identifiers after competency information
- Alpha S will be used for secretarial positions.
- Use zeros to fill unused digit spaces.

(1 SPACE) LEVEL 1 COMPETENCY IDENTIFIER	(5 SPACES) CODE NUMBERS	(1 SPACE) SITE IDENTIFIER
1 THRU 8 NUMERIC CHARACTERS ONLY	NUMERIC OR ALPHA CHARACTERS ONLY	A THRU Z ALPHA CHARACTERS ONLY



SITE/SUMMARY SITE SELECTIONS

SITE	ACTUAL SITE NAME	BUSINESS UNIT	SITE ALPHA IDENTIFIER
NASC	Naval Air Systems Command, Patuxent River	HQ	V
NASG	Naval Air Systems Command, Washington (WLO)	HQ	W
NAPAX	NAWCAD, Patuxent River	NAWCAD	A
NALKE	NAWCAD, Lakehurst	NAWCAD	B
NAIND	NAWCAD, Indianapolis	NAWCAD	C
NTORL	NAWCTSD, Orlando	NAWCTSD	G
NWCLK	NAWCWD, China Lake	NAWCWD	D
NWPTM	NAWCWD, Point Mugu	NAWCWD	E
NWWSD	NAWCWD, White Sands	NAWCWD	F
NWALB	NAWCWD, Albuquerque	NAWCWD	D
NATEC	Naval Air Technical Data & Engineering Service Command	EOB	N
NDCPT	Naval Aviation Depot, Cherry Point	DP	J
NDJAX	Naval Aviation Depot, Jacksonville	DP	H
NDNIL	Naval Aviation Depot, North Island	DP	K
NDJAP	Naval Aircraft Pacific Repair Activity (NAPRA)	DP	S



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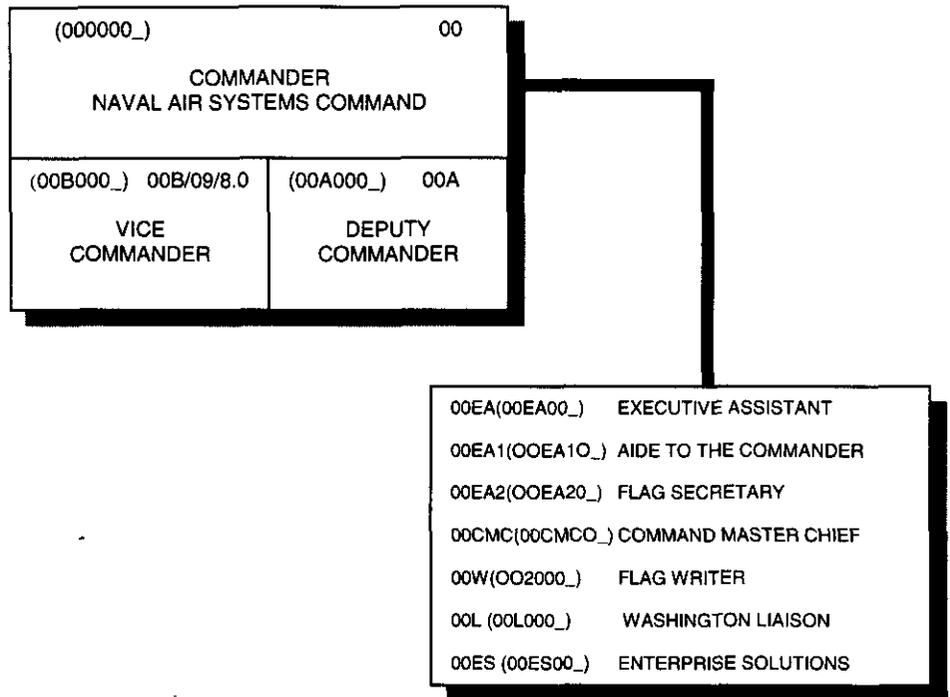
MAY 2000

**Single command formed from NAESU and NATSF
*As of 1 October 1999 (NATSF) and (NAESU) were combined into NATEC (Naval Air Technical Data & Engineering Service Command), Commanding Officer CDR D. Shurtliff, Naval Air Station, North Island, CA

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**NAVAL AIR SYSTEMS TEAM
ECHELON 2**

COMMANDER (00/000000_) - Responsible for accomplishing the assigned mission and ensuring performance of established functions and tasks under this mission. Serves as Equal Employment Opportunity (EEO) Officer. Serves as the Executive Officer for acquisition programs and as such, receives guidance and direction with respect to acquisition matters directly from the Assistant Secretary of the Navy (Research, Development, and Acquisition).

DEPUTY COMMANDER (00A/00A000_) - Serves as the senior civilian for the Command and shares, on coequal basis with 00B, responsibility for providing executive direction to NAVAIR as delegated by 00. Responsible for policies and overall effectiveness and efficiency of business management, including contracts, in NAVAIR. Resolves disputes involving functional managers from different groups. Chairs the Executive Resources Board. Provides corporate memory for long-term commitments, policies, practices, and processes. Directs the system for evaluating the execution of the Command Naval Aviation Program. Acts for 00 in those areas of civilian personnel management matters as appropriate. Acts for and performs the duties of 00 and/or 00B in their absence.

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VICE COMMANDER (00B/00B000_) - Acts as principle advisor to the Commander on all matters of Command policy. Provides, in concert with the Deputy Commander (00A), executive direction to NAVAIR as delegated. Acts for and performs the duties of the Commander during his absence. Serves in a collateral capacity as Shore Station Management Competency Leader (8.0/80000V).

EXECUTIVE ASSISTANT (00EA/00EA00_) - Serves as principle contact point for the Commander; plans and controls daily schedules of AIR-00 and AIR-00B. Provides policy and non-policy information in areas where the Commander's views are known. Coordinates the activities of the immediate staff.

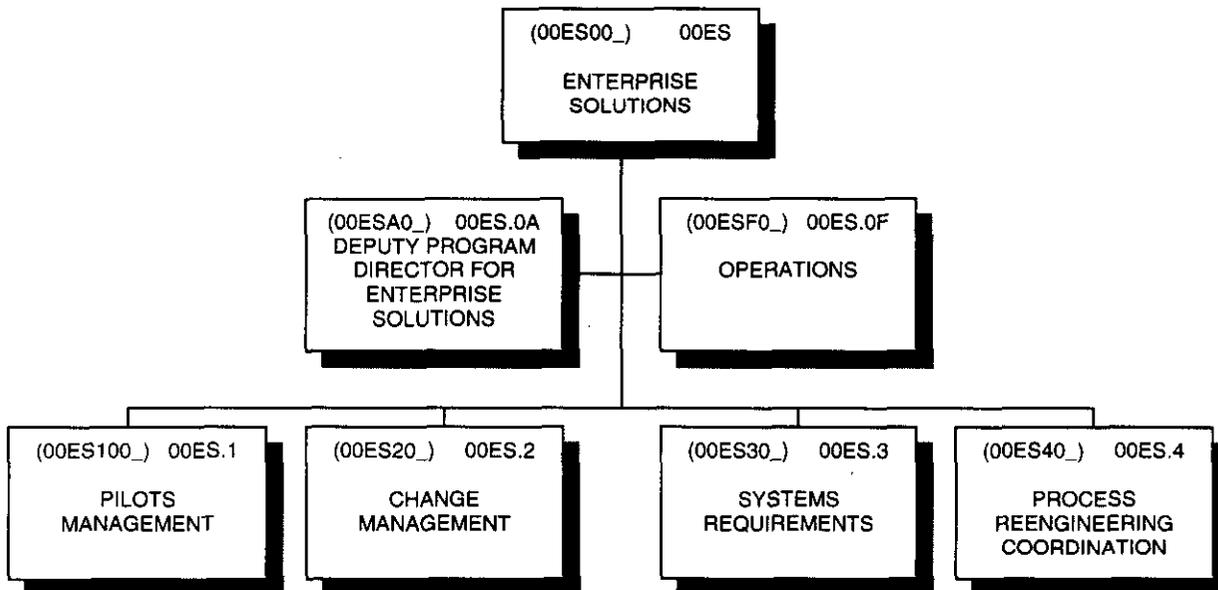
AIDE TO THE COMMANDER (00EA.1/00EA10_) - Schedules and coordinates protocol matters, official and social calendar; assists in ceremonies, honors and courtesies; assists in planning execution of official events hosted by Commander; accompanies the flag officer on official travel as directed.

FLAG SECRETARY (00EA.2/00EA20_) - Provides military and administrative support to the Office of the Commander. Coordinates and maintains official correspondence on a wide variety of subjects in support of the Commander. Coordinates and investigates matters of importance to the Commander, Vice Commander, and Executive Assistant. Administers NAVAIR Military Awards Program.

COMMAND MASTER CHIEF (00CMC/00CMC0_) - Responsible for serving as the principle contact point and advisor to AIR-00 and AIR-00B on all matters affecting welfare, morale and community and civic relationships involving enlisted personnel and their family members, including policies and standards of leadership, professionalism, conduct, and appearance.

FLAG WRITER (00W/002000_) - Provides administrative support by drafting personal and professional correspondence, acting on matters of social usage, protocol, honors and ceremonies; preparation of travel orders; and preparation of Officer Reports of Fitness for the Commander, Naval Air Systems Command, and meets any additional requirements of the Commander.

WASHINGTON LIAISON (00L/00L000_) - Comprises a limited, but credible "in-town" presence and a wide range of capabilities to support transient TEAM members. Responsible to Commander, Naval Air Systems Command, AIR-00, and consists of a minimal number of permanently assigned NAVAIR employees. Permanent members are available to substitute for their respective principals, and/or attend to emergent requirements, such as, short notice meetings and immediate actions. In its transient support role, provides the facilities and resources to support representatives of NAVAIR and the PEOs while they are conducting official business in the National Capitol Region. Provides visiting personnel a temporary place to work, hold meetings, as well as obtain administrative support.

**ENTERPRISE SOLUTIONS
00ES/00ES00_**

ENTERPRISE SOLUTIONS (00ES/00ES00_) - Responsible to Commander, Naval Air Systems Command, AIR-00, with integral communication strategies with PEOs, Competency Leaders, Business Units, and core process owners. The objectives are to support a globalization strategy ("One Team") through such programs as Enterprise Resource Planning (ERP); to reengineer and standardize processes; to integrate operations and data; to increase productivity; and to optimize supply chain inventory.

DEPUTY PROGRAM DIRECTOR FOR ENTERPRISE SOLUTIONS (00ES.0A/00ESA0_) - Responsible for the Program Director's Leadership Team and for full life cycle management of the ERP and other Enterprise Solutions within the NAVAIR TEAM. Responsible for the quality of work within and among all assigned lower-tier IPT's and for the successful delivery of the assigned products within allocated cost, schedule, and performance parameters.

OPERATIONS (00ES.0F/00ESF0_) - Responsible for all financial, cost contracting issues, and business operations for the ESPO. Ensures senior leadership is apprised of all funding strategies and investment strategies for the successful implementation of an ERP system. Ensures all funding is reported within the WPS and AOP. This team provides financial/cost evaluation leadership, develops/maintains business case, trade-off analysis, and contract administrative support.

PILOTS MANAGEMENT (00ES.1/00ES10_) - Responsible for the overall management efforts associated with the ERP Program Management pilot being conducted within the NAVAIR TEAM to include, but not limited to cost, schedule,

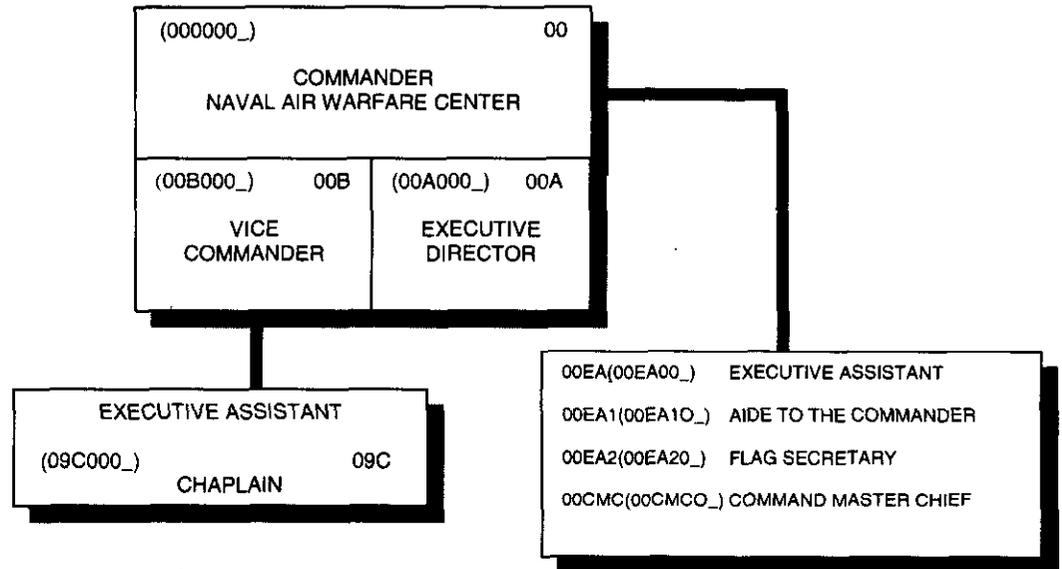
performance, and risk management until deployed. Coordinates with other Navy ERP pilots ensuring all lessons learned are shared within the Navy. Ensures all features of the Navy pilots being conducted are imported or exported to benefit the overall Navy objectives of ERP.

CHANGE MANAGEMENT (00ES.2/00ES20_) - Responsible for aligning the organization's culture and people with corporate initiatives. Develops change management plans and programs for the NAVAIR organization. Creates the overall framework for change management and establishes the overall corporate change management approach. Organizes the internal change management structure utilizing existing functions. Leads NAVAIR's Change Management Enterprise Team. Coordinates and integrates other ERP pilot activities that affect NAVAIR personnel. Ensures all levels of the corporation are involved in the change management process and are ready to accept change. Helps leadership develop skills to manage change. Co-leads change management for ERP with the integrator. Responsible for the overall communications, training, and human resources efforts associated with the implementation of an ERP system.

SYSTEMS REQUIREMENTS (00ES.3/00ES30_) - Responsible for business process requirements analysis, configuration, architecture, integration, interfaces, data requirements, operations and support, and testing of an ERP solution. Ensures that the requirements are consistent with the objectives of ERP implementation. Completes trade-off analysis. Verifies all requirements have been met and results are consistent with the established objectives.

PROCESS REENGINEERING COORDINATION (00ES.4/00ES40_) - Responsible for the overall reengineering efforts being conducted within the NAVAIR TEAM. Ensures all efforts are coordinated and consistent with the ERP solution. Provides Project Management to the multiple BPR Teams to oversee benefits realization and tracking, and investment allocation and tracking. Provides interface between ERP and the other reengineering efforts. Responsible for establishing and operation of an Activity Based Cost model to support ongoing Activity Based Management.

**NAVAL AIR SYSTEMS TEAM
ECHELON 3 (NAWCAD/NAWCWD)**



COMMANDER (00/000000_) - Responsible for accomplishing the assigned mission and ensuring performance of established functions and tasks under this mission. Serves as Equal Employment Opportunity (EEO) Officer. Serves as the Executive Officer for acquisition programs and as such, receives guidance and direction with respect to acquisition matters directly from the Commander, Naval Air Systems Command.

EXECUTIVE DIRECTOR (NAWCAD) (00A/00A000_) - Responsible to the Commander in exercising technical, administrative, and business management policies, programs, and operations of the Naval Air Warfare Center Aircraft Division. Exercises line management authority for the Aircraft Division's research, development, test evaluation and in-service engineering mission across all subordinate organizations and geographically diverse locations of the Aircraft Division. The geographic locations include, but are not limited to, Patuxent River, Maryland; St. Inigoes, Maryland; Lakehurst, New Jersey; and Orlando, Florida. Additional small detachments or contractor site representatives are also located elsewhere throughout the continental United States. Responsible for ensuring a balanced and vigorous program of research, development, test, and evaluation. Provides policy guidance and direction to the test and support divisions. Services on Aircraft Division's Executive Management Boards. Directs the formulation of an integrated and coherent research, development, test and evaluation program for aircraft systems and makes certain that the program is fully responsive to the needs of the Navy and that it reflects the best efforts of the Aircraft Division. Acts as a consultant to the Commander and consults NAVAIRSYSCOM Headquarters and the Office of the Chief of Naval Operations on matters relating to aircraft systems programs, especially funding and scheduling requirements.

EXECUTIVE DIRECTOR (NAWCWD) (00A/00A000_) - In addition to the duties and responsibilities of Director for Research and Engineering (400000_), the incumbent will perform additional duties as delegated by the Area Commander. Such duties include providing leadership and coordination for the Weapons Division business unit necessary to satisfy business and financial objectives including budget development/execution and Net Operating Result. The incumbent provides the administrative direction necessary to coalesce the activities of Competencies operating at both the China Lake and Point Mugu sites as they relate to the achievement of business/financial objectives. These additional duties and responsibilities constitute the role for the "Executive Director", Weapons Division Area Command. In the exercise of these Additional Duties, the incumbent reports to the Area Commander.

VICE COMMANDER (00B/00B000_) - Acts as principle advisor to the Commander on all matters of Command policy. Provides, in concert with the Deputy Commander (00A), executive direction to NAVAIR as delegated. Acts for and performs the duties of the Commander during his absence. Serves in a collateral capacity as Shore Station Management Competency Leader (8.0/80000_).

EXECUTIVE ASSISTANT (00EA/00EA00_) - Serves as principle contact point for the Commander; plans and controls daily schedules of 00 and 00B. Provides policy and non-policy information in areas where the Commander's views are known. Coordinates the activities of the immediate staff.

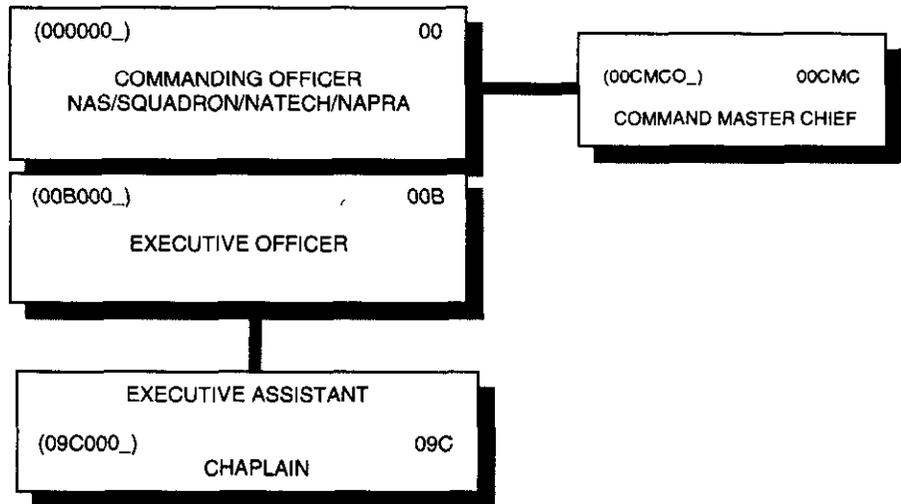
AIDE TO THE COMMANDER (00EA.1/00EA10_) - Schedules and coordinates protocol matters, official and social calendar; assists in ceremonies, honors and courtesies; assists in planning execution of official events hosted by Commander; accompanies the flag officer on official travel as directed.

FLAG SECRETARY (00EA.2/00EA20_) - Provides military and administrative support to the Office of the Commander. Coordinates and maintains official correspondence on a wide variety of subjects in support of the Commander. Coordinates and investigates matters of importance to the Commander, Vice Commander, and Executive Assistant.

COMMAND MASTER CHIEF (00CMC/00CMC0_) - Responsible for serving as the principle contact point and advisor to 00 and 00B on all matters affecting welfare, morale and community and civic relationships involving enlisted personnel and their family members, including policies and standards of leadership, professionalism, conduct, and appearance.

EXECUTIVE ASSISTANT TO THE COMMANDER/VICE COMMANDER:

CHAPLAIN (09C/09C000_) - Responsible under the Commander for providing and facilitating religious ministries for all personnel, and for advising the Commander on all matters related to religious, moral, and spiritual needs.

**NAVAL AIR SYSTEMS TEAM
ECHELON 4/5**

COMMANDING OFFICER (00/000000_) - Charged with absolute responsibility for the safety, well-being, and efficiency of his command. Responsible for accomplishing the assigned mission and ensuring performance of established functions and tasks under this mission. Serves as Equal Employment Opportunity (EEO) Officer. Receives guidance and direction with respect to acquisition matters directly from the Echelon 2 and 3 Commanders.

EXECUTIVE OFFICER (00B/00B000_) - Direct representative of the Commanding Officer. Conform and carry out the policies and orders of the Commanding Officer and shall keep him/her informed of all significant matters pertaining to the command. Primarily responsible under the CO for the organization, performance of duty, and good order and discipline of the entire command. Acts for and performs the duties of 00 his/her absence.

COMMAND MASTER CHIEF (00CMC/00CMC0_) - Responsible for serving as the principle contact point and advisor to 00 and 00B on all matters affecting welfare, morale and community and civic relationships involving enlisted personnel and their family members, including policies and standards of leadership, professionalism, conduct, and appearance.

EXECUTIVE ASSISTANT TO THE COMMANDING OFFICER:

CHAPLAIN (09C/09C000_) – Responsible under the Commanding Officer, for providing and facilitating religious ministries for all personnel and for advising the Commanding Officer on all matters related to religious, moral, and spiritual needs.

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PROGRAM EXECUTIVE OFFICERS (PEOs)

1. **Organization.** PEO(A), PEO(T), and PEO(CU) are organized to serve as the Navy's centralized manager for their assigned major programs and related non-major programs. These PEOs are part of the TEAM; however, they report directly to the Assistant Secretary of the Navy (Research, Development, and Acquisition) (ASN(RDA)) for matters of acquisition. Reference (d) further defines their roles/responsibilities and relationships with COMNAVAIR.
2. **Charters.** PEO(A), PEO(T), and PEO(CU) are appointed and chartered by ASN (RDA) to serve as the Navy's centralized manager for the assigned major programs and related non-major programs. Specific authority, responsibility, accountability, operating organization, resources, and functional support required to carryout the mission of the PEOs are delineated therein.
3. **Functions.** PEO(A), PEO(T), and PEO(CU) report directly to the Navy Acquisition Executive (NAE), and devote full time attention to their acquisition responsibilities and has management accountability for assigned programs. These PEOs act for and exercise the authority of NAE to directly supervise management of assigned programs, maintaining oversight of cost, schedule, and performance. They adhere to procedures established by the TEAM in obtaining matrix support. They have the authority to deviate from established NAVAIR policies in the exercise of sound business and technical judgment.
4. The specific duties, responsibilities, acquisition/life cycle management authorities of PEO(A), PEO(T), and PEO(CU) are outlined in their charter for their assigned programs/missiles, and are summarized below:

PROGRAM EXECUTIVE OFFICER FOR AIR ASW, ASSAULT AND SPECIAL MISSION PROGRAMS (PEO(A)) and PROGRAM EXECUTIVE OFFICER FOR TACTICAL AIRCRAFT PROGRAMS (PEO(T)):

- a. Report directly to the NAE on all matters concerning cost, schedule, and performance of assigned programs.
- b. Exercise authority, responsibility, and accountability for life cycle management of assigned acquisition programs, including sensitive, classified programs, and security and original classification authority.
- c. Report to the Chief of Naval Operations and Commandant of the Marine Corps, through the Commander, NAVAIR, for matters pertaining to in-service support of assigned programs.
- d. Serve as the decision authority for assigned programs; chair Acquisition Review Boards, Navy Program Decision Meetings, and Navy or Joint Service Program Reviews as appropriate; approve acquisition documentation as appropriate.
- e. Designate weapon system ACAT III and IV programs, forwarding listing of all programs so designated biannually to the NAE.

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- f. Discharge assigned management responsibilities in a manner consistent with policies, procedures, and strategic goals established by NAE.
- g. Oversee and ensure appropriate resources are available for assigned acquisition programs. Supervise, advise, and evaluate the job performance of assigned Program Managers (PMs) and exercise Fitness Reports (FITREPs)/performance evaluation responsibility. Control salaries and related administrative expenses, and exercise classification authority for the PEO staffs and PM personnel assigned to the PEO Unit Identification Code.
- h. Ensure, with NAVAIR support, integrity in fiscal and contractual matters. Control assigned programs and program administration financed in O&M,N, RDT&E,N, procurement, MILCON, and NG&RE appropriations that are allocated by Comptroller of the Navy (NAVCOMPT) to the NAVAIR Comptroller for each PEO; this responsibility extends to foreign military sales funding as well. Coordinate with and provide direction to the NAVAIR Comptroller for allocating budget adjustments, authorizing Below Threshold Reprogramming (BTR), resolving funding issues, and preparing budget submissions.
- i. Exercise delegated review and approval authorities, including chartering PMs, and approving program operating guides, acquisition plans, and all appropriate certifications for all assigned programs, including cost estimates developed by or for PMs.
- j. Act as the Source Selection Authority for assigned programs.
- k. Assess performance, cost and schedule performance of assigned programs; review and assess changes reported, significance of problems reported by the PM, the PM's proposed action plans, and level of risk associated with such plans.
- l. Exercise technical decision authority over assigned programs, with technical assistance provided by NAVAIR, including acquisition portions of life cycle management.
- m. Ensure integrated logistics support is an integral part of the system engineering process and that it remains a key consideration in all resources trade-off efforts, beginning with program initiation.
- n. Hold PM's accountable to ensure that readiness objectives are pursued during the cost as an independent variable trade-off analysis process; promote commonality, and ensure compatibility and interoperability for assigned programs.
- o. Establish Fleet Support Teams for each program, and ensure cost of ownership and affordable readiness are implemented and measured throughout programs' life cycles.

PROGRAM EXECUTIVE OFFICER FOR CRUISE MISSILES AND JOINT UNMANNED AERIAL VEHICLES (PEO(CU))

- a. Report directly to the NAE on all matters concerning cost, schedule, and performance of assigned programs.
- b. Exercise authority, responsibility, and accountability for assigned acquisition programs.
- c. Discharge assigned management responsibility in a manner consistent with policies and procedures established by NAE.
- d. Supervise, advise, and evaluate the job performance of assigned PMs and exercise program managers and exercise FITREP responsibility. Provide advice and guidance to these PMs.
- e. Control assigned programs and program administration financed in Operations and Maintenance, Research, Development, Test and Evaluation, and Procurement appropriations that are allocated by NAVCOMPT to the NAVAIR Comptroller for PEOs/DRPMs. This responsibility includes coordinating with and providing direction to the NAVAIR Comptroller on allocation of budget adjustment, authorizing Below Threshold Reprogrammings (BTR), resolving funding issues, and preparing budget submissions.
- f. Chair Acquisition Review Boards (ARBs) for assigned programs.
- g. Exercise delegated review and approval authorities, including approval of Acquisition Plans, for all assigned programs.
- h. Act as Source Selection Authority for assigned programs.
- i. Approve PM charters.
- j. Evaluate and service as advocate and spokesman for overall performance of assigned programs.
- k. Provide executive management and oversight to:
 - (1) Resolve issues that arise within and between PM organizations and with NAVAIR;
 - (2) Ensure integrity in fiscal and contractual matters, with NAVAIR assistance;
 - (3) Assess performance, cost, and schedule of assigned programs;
 - (4) Exercise responsibility for all appropriate certifications pertaining to assigned programs; and
 - (5) Exercise technical and life cycle management authority over assigned programs, with advice and input provided by NAVAIR.
- l. Hold PMs accountable to ensure that readiness objectives are pursued through early support, performance, cost, and schedule trade-off analysis; including:
 - (1) Promoting commonality among assigned programs; and
 - (2) Ensuring compatibility and interoperability for assigned programs.
- m. Exercise Manage to Payroll (MTP) and classification authority for PEO(CU) PM personnel assigned to the PEO(CU) Unit Identification Code (UIC).

- n. Ensure adherence to DOD and Department of Navy policy in all acquisition matters related to assigned programs.
 - o. Exercise decision authority for cost estimates jointly developed by/for the PM.
 - p. Jointly develop plans with NAVAIR for the transition of programs into and out of the PEO organizational structure.
5. The specific duties, responsibilities, acquisition/life cycle management authorities of PEO(JSF)) are outlined in their charter for their assigned programs, and are summarized below:

PROGRAM EXECUTIVE OFFICER FOR JOINT STRIKE FIGHTER PEO(JSF) –

- a. Report directly to the NAE/AFAE on all matters concerning cost, schedule, and performance of assigned programs.
- b. Exercise authority, responsibility, and accountability for life cycle management of assigned acquisition programs, including sensitive, classified programs, and security and original classification authority.
- c. PEO(JSF), under a Navy/Marine Corps Director, reports directly to Air Force Acquisition Executive (AFAE), Office of Secretary of Defense, Acquisition, Technology & Logistics, for matters pertaining to in-service support of assigned programs. Under an Air Force Director, PEO(JSF) will report directly to NAE.
- d. Serve as the decision authority for assigned programs; chair Acquisition Review Boards, Navy Program Decision Meetings, and Navy or Joint Service Program Reviews as appropriate; approve acquisition documentation as appropriate.
- e. Designate weapon system ACAT III and IV programs, forwarding listing of all programs so designated biannually to the NAE/AFAE.
- f. Discharge assigned management responsibilities in a manner consistent with policies, procedures, and strategic goals established by NAE/AFAE.
- g. Oversee and ensure appropriate resources are available for assigned acquisition programs. Supervise, advise, and evaluate the job performance of assigned Program Managers (PMs) and exercise Fitness Reports (FITREPs)/performance evaluation responsibility. Control salaries and related administrative expenses, and exercise classification authority for the PEO staffs and PM personnel assigned to the PEO Unit Identification Code.
- h. Ensure, with NAVAIR support, integrity in fiscal and contractual matters. Control assigned programs and program administration financed in O&M,N, RDT&E,N, procurement, MILCON, and NG&RE appropriations that are allocated by Comptroller of the Navy (NAVCOMPT) to the NAVAIR Comptroller for each PEO; this responsibility extends to foreign military sales funding as well. Coordinate with and provide direction to the NAVAIR Comptroller for allocating budget adjustments, authorizing Below Threshold Reprogramming (BTR), resolving funding issues, and preparing budget submissions.
- i. Exercise delegated review and approval authorities, including chartering PMs, and approving program operating guides, acquisition plans, and all appropriate

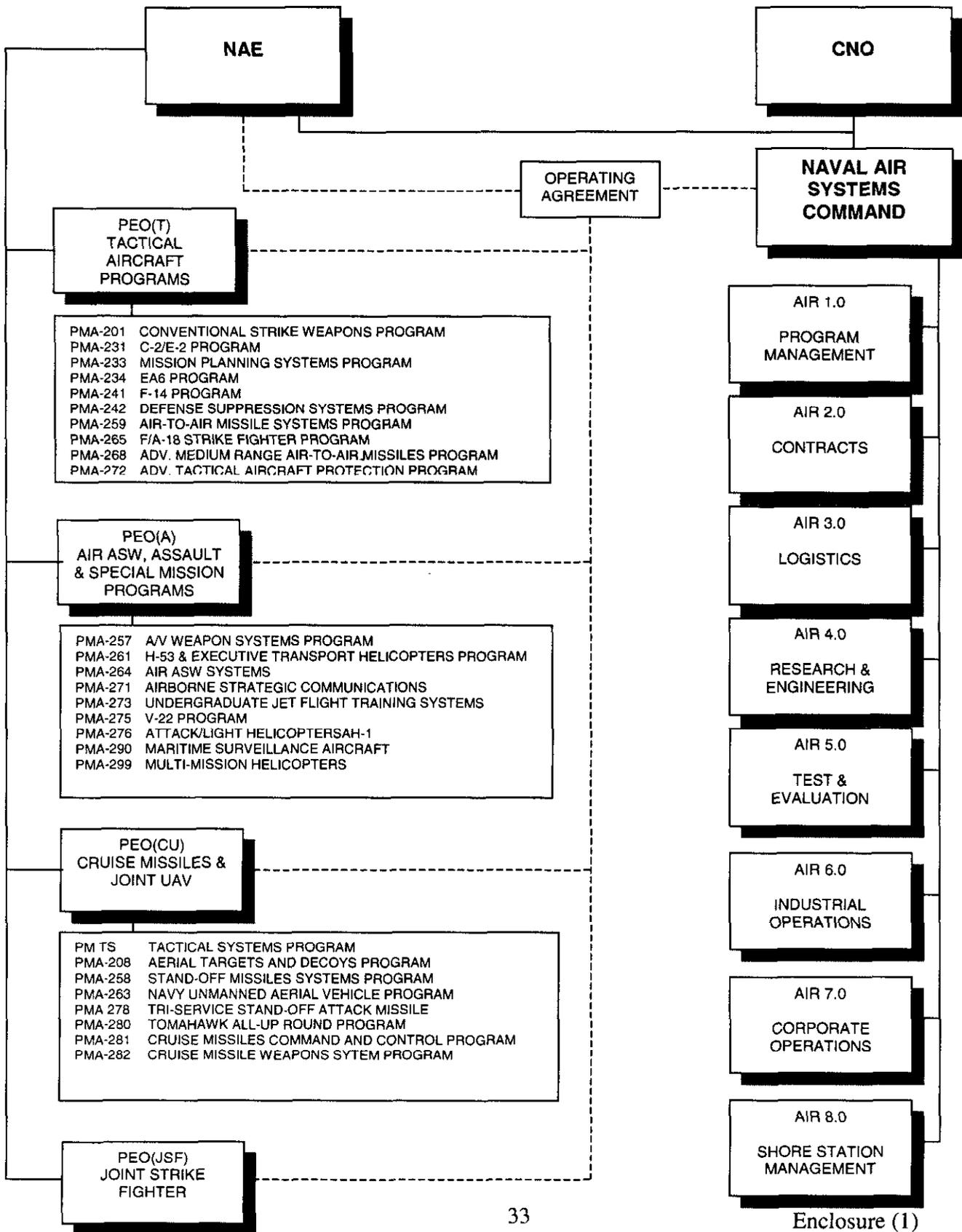
- certifications for all assigned programs, including cost estimates developed by or for PMs.
- j. Act as the Source Selection Authority for assigned programs.
 - k. Assess performance, cost and schedule performance of assigned programs; review and assess changes reported, significance of problems reported by the PM, the PM's proposed action plans, and level of risk associated with such plans.
 - l. Exercise technical decision authority over assigned programs, with technical assistance provided by NAVAIR, including acquisition portions of life cycle management.
 - m. Ensure integrated logistics support is an integral part of the system engineering process and that it remains a key consideration in all resources trade-off efforts, beginning with program initiation.
 - n. Hold PM's accountable to ensure that readiness objectives are pursued during the cost as an independent variable trade-off analysis process; promote commonality, and ensure compatibility and interoperability for assigned programs.
 - o. Establish Fleet Support Teams for each program, and ensure cost of ownership and affordable readiness are implemented and measured throughout programs' life cycles.

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PROGRAM EXECUTIVE OFFICERS

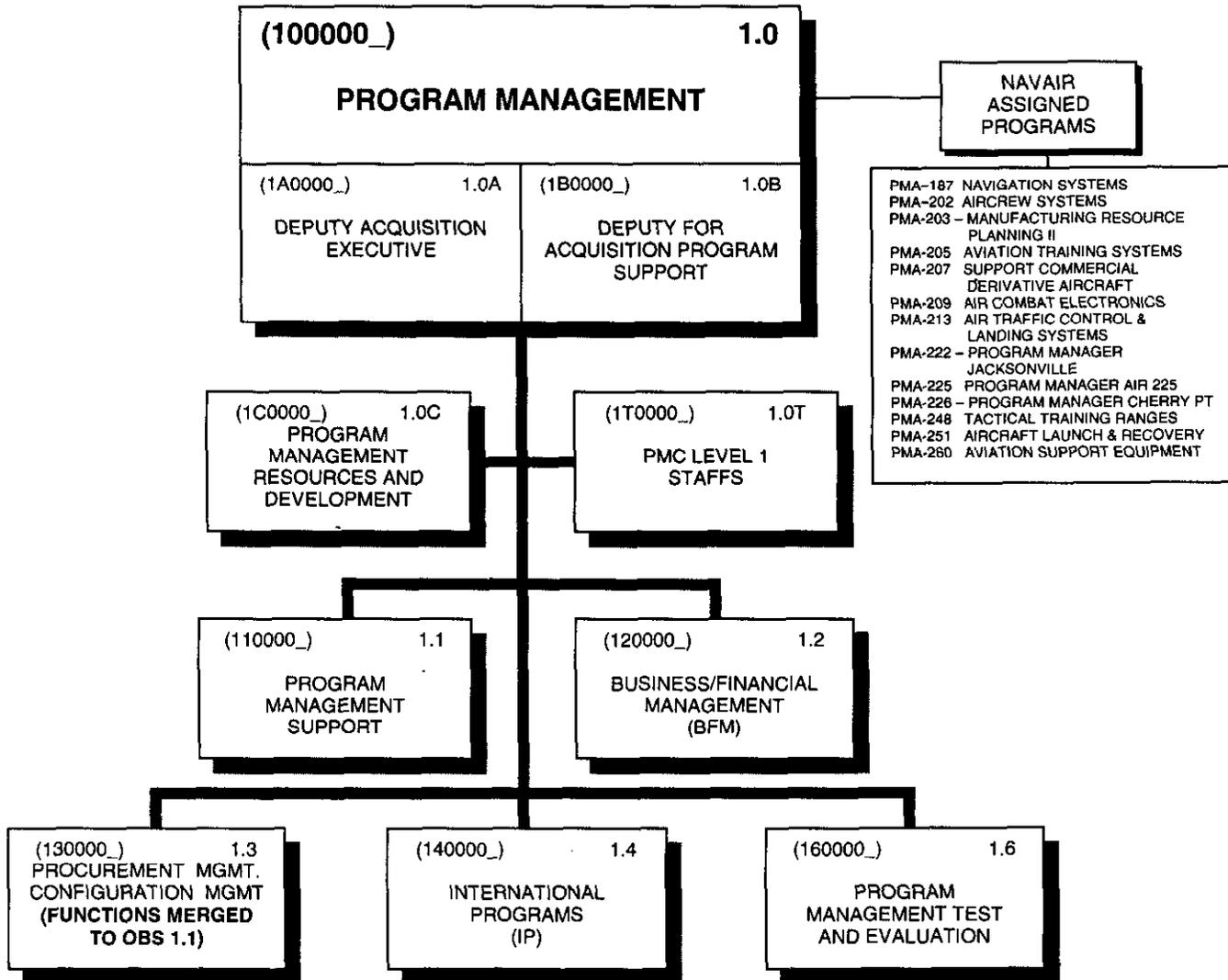


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**PROGRAM MANAGEMENT
1.0/100000_**



PROGRAM MANAGEMENT (1.0/100000_) - Serves as the NAVAIR Acquisition Executive for NAVAIR managed programs; formulates/maintains policy for standard Integrated Program Team (IPT) implementation and External Directed Team (EDT) oversight; establishes/maintains processes to monitor programmatic cost, schedule, and performance; and establishes/maintains program office personnel skill assessments and training requirements. As Program Management Competency (PMC) Leader, provides Program Managers with the standard processes and support services required to develop, plan, and execute projects to satisfy domestic and international program customer requirements. This includes training for program management personnel to be able to forecast and plan IPT/EDT schedules, cost, and performance requirements across the full system life cycle. In this capacity, the PMC Leader

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provides policy and guidance on issues relating to the competency, and provides leadership for workforce sizing; processes standardization and improvement, training, and facilities/equipment needed to implement PMC objectives.

(Note: PMC Level 1 Managers (1.0 Equivalents at Area Commands and PEOs). For purposes of alignment/mapping, PMC Level 1 Managers at Area Commands away from TEAM Patuxent River and all Program Executive Officers (PEOs) will align to 1.0. It also recognizes the functions of the PEOs who, in collaboration with the NAVAIR Acquisition Executive (AIR-1.0), have equal roles in the formulation and implementation of PMC operating policy).

DEPUTY ACQUISITION EXECUTIVE (1.0A/1A0000_) - Serves as principal advisor to the Deputy Commander for Acquisition and Operations on all matters affecting the acquisition of NAVAIR managed programs. Assists the PMC Leader in competency planning/implementation, formulation of competency policy and guidance, competency work processes, and training program requirements. Additionally, provides executive leadership in Navy-wide and DoD-wide initiatives involving the TEAM, such as Acquisition Reform, Joint Aeronautical Commanders Group, and attendant working group activities.

DEPUTY FOR ACQUISITION PROGRAM SUPPORT (1.0B/1B0000_) - Assists the NAVAIR Acquisition Executive in monitoring the cost, schedule, and performance of assigned NAVAIR acquisition programs. Defines generic program support requirements needed by assigned program teams/IPTs/EDTs in such areas as resource management, acquisition policy/documentation, weapons system planning, production management, configuration/data management, defense security assistance, test and evaluation policy and procedures, and procurement process support. Assists AIR-1.0 with military manpower requirements and support to the Naval Aviation Liaison Group (NALG).

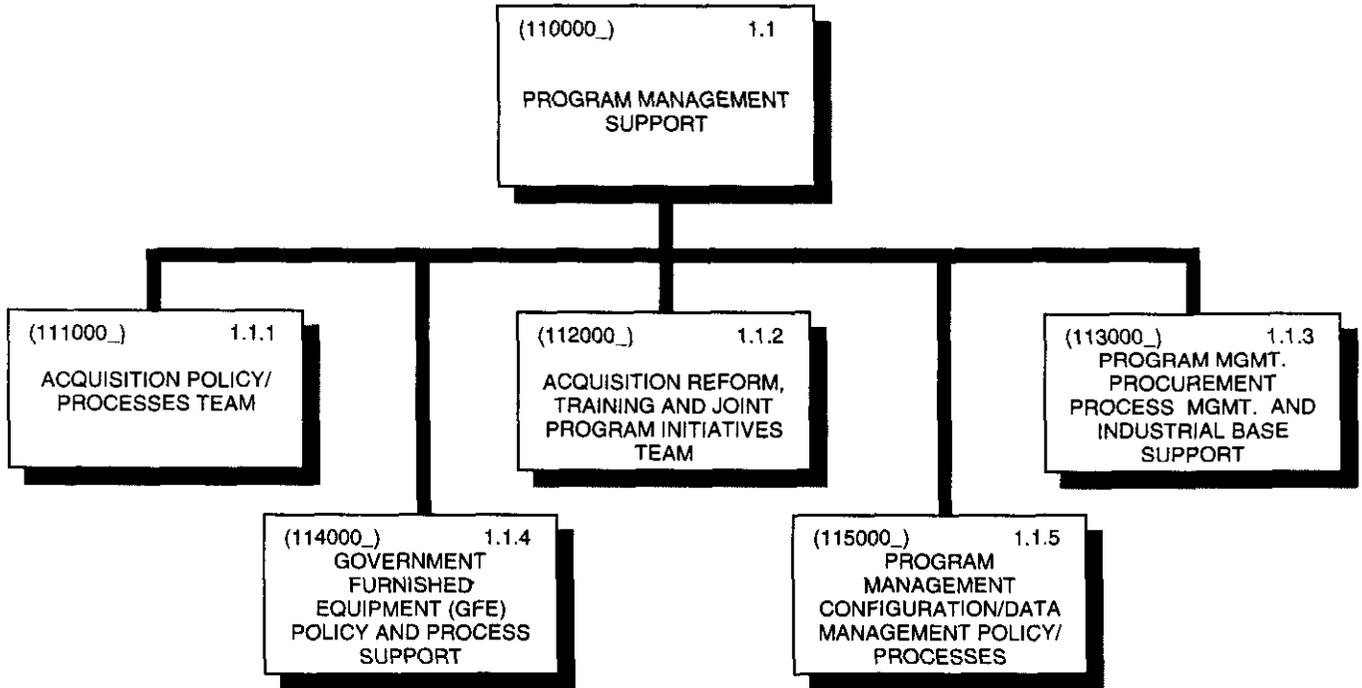
PMC LEVEL 1 STAFFS (LEADERSHIP AND MANAGEMENT TEAM SUPPORT) (1.0T/1T0000_) - Assists the PMC Leader/Level 1 Managers/PEOs in executing assigned acquisition/program management roles and responsibilities. Also includes unique competency management functions as defined by the PMC, such as special projects support and reserve force coordination (including National Guard/Reserve Equipment funds management), and PMC community management.

(Note: For the purposes of alignment & mapping, these executive staffs align to OBS code 1.0T; however, organizationally, they may possess different local organizational codes. For example, at TEAM Patuxent River, this included AIR-1.0T, AIR-1.0U, AIR1.0X, and the immediate staffs of the PEO offices. Those elements of the Level 1 staffs, however, that are involved in personnel, administrative, and resource management will align to AIR-1.0C as described below.)

PROGRAM MANAGEMENT RESOURCES AND DEVELOPMENT (1.0C/1C0000_) -

Coordinates and controls administrative and related resource management matters for the PEOs, PMAs, and the PMC. Includes implementing TEAM resource management policy and procedural guidance, position management and oversight of civilian and military manpower management programs, facilities planning, coordinating office service requirements, training and resource management support for the Defense Acquisition Workforce Improvement Act (DAWIA). Also involves coordination of PMC workforce attendance in developmental training programs such as the Senior Executive Management Development Program, Defense Leadership and Management Program, and various other long term training programs. Includes coordination of training activities necessary to support program management competencies and certification requirements imposed by DAWIA, as administered by the Navy Director, Acquisition Career Management (DACM). Additionally, manages the implementation and maintenance of the Acquisition Workforce Program (AWP) (with the exception of routine training issues) for the Naval Air Systems TEAM. Develops TEAM-wide policy for AWP initiatives.

**PROGRAM MANAGEMENT SUPPORT
 1.1/110000_**



PROGRAM MANAGEMENT SUPPORT (1.1/110000_) - Provides the training, tools, and work processes for use by program teams/IPTs/EDTs to translate operational requirements into program plans and exercise IPT/EDT leadership to successfully execute life cycle program management. This includes skills and processes to: develop, plan, analyze, and execute projects across the full system life cycle; satisfy customer requirements; plan and manage resources needed to produce, on schedule, products or end-items that meet specified quality, performance, and cost requirements; manage development of new or improved weapons system capability. Develops, analyzes, and monitors processes associated with program acquisition and life cycle management to fulfill requirements of DoD 5000 series directives and attendant Navy implementing instruction. Provides oversight and leadership of key work processes used across competencies to acquire/support naval aviation systems (e.g., ECPs, PIDs, GFE, etc.), providing a management forum (Acquisition Operations Council) for continuous performance measurement of acquisition processes. Serves as Executive Secretariat for the Joint Aeronautical Commander's Group (JACG) and designated manager of the NAVAIR Reinvention Laboratory. Consults with equivalent acquisition representatives from the PEOs to develop skills, tools, and common work processes.

(Note: For purposes of training and skills improvement, NAVAIR/PEO program personnel involved in planning and management functions of programs will be "aligned" (i.e., grouped together) under this competency area. In controlling the actual work assignments of those personnel, each individual PEO/AIR-1.0 will manage its assigned

personnel. Personnel aligned to Program Management Support (1.1) include those personnel whose functions are or approximate those of designated PMAs. Specifically, those functions include (a) full cost/schedule/performance responsibility for a program or a major element of a program; and (b) dealing with the same processes, issues, concerns, and products as a PMA. Normally, these personnel are formally chartered as IPT Leads, Deputy IPT Leads, and "Deputy and/or Assistant Deputy for" in or away from what is now TEAM Patuxent River, and who formally report to the PMA. Project Coordinators (PCs) in the field who lead multi-disciplined teams in the development/acquisition of products are aligned to Program Support. However, NAWC personnel who have in the past typically been referred to as "Program Managers", but are predominantly involved in teams that are providing technical services like systems engineering or logistics support, do not belong under Program Management (1.0), but rather Logistics (3.0) or Research and Engineering (4.0) as appropriate.)

ACQUISITION POLICY/PROCESSES TEAM (1.1.1/111000_) - Responsible for providing direction to AIR-1.0 and the AIR-1.0 PMAs in all areas regarding acquisition policy and procedures as established by DoD, SECNAV, and the Naval Aviation Systems Team (TEAM). Primary duties include working directly with program managers and IPT leaders to develop executable approaches to managing acquisition programs, providing advice on the requirements imposed by DoD Directive 5000.2-R and SECNAVINST 5000.2B, and assisting in preparing programs for decision reviews. Specifically, team members work with program managers in translating fleet requirements into viable acquisition strategies; assisting in the preparation and staffing of program documentation such as Acquisition Plans, Acquisition Baselines, and Analyses of Alternatives; and providing coordination support for all aspects of AIR-1.0 chaired milestone and acquisition strategy reviews. In addition, represents the TEAM on councils responsible for reviewing and updating the DoD and SECNAV 5000 series directives, and provides training to TEAM acquisition personnel on acquisition policies/processes. Related duties include management of the TEAM's Acquisition Operations Council, maintaining and updating for reissue the NAVAIR Acquisition Guide, and coordinating the AIR-1.0 metrics briefings to ASN(RDA). The AIR-1.1.1 Team also manages the AIR-1.0 Program Management Reviews and is responsible for Command policy on PMA charters, Program Operating Guides, and Memorandums of Agreement. Miscellaneous duties include support for the Single Process Initiative and representing AIR-1.0 on the TEAM's Environmental Council.

ACQUISITION REFORM, TRAINING AND JOINT PROGRAM INITIATIVES TEAM (1.1.2/112000_) - Responsible for three distinct efforts in support of NAVAIR's mission: Acquisition Reform (AR); the JACG Secretariat; and acquisition process training. As Director of NAVAIR's Acquisition Reform program, responsible for all aspects of AR training, education, communication, and implementation. Works closely with the ASN(RD&A) Acquisition Reform Executive and the Deputy Under Secretary of Defense for Acquisition Reform in implementing Navy and OSD AR policies and programs across all of the Naval

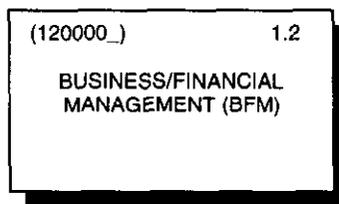
Aviation Systems TEAM. As Secretariat of the JACG responsible to the Commander, Naval Air Systems Command for the efficient functioning of the JACG, which is comprised of senior representatives of the Air Force, Army, Navy, Marine Corps, FAA, NASA, DLA, and Coast Guard. In this role, coordinates JACG activities with these agencies as well as with senior members of the Naval Air Systems TEAM who support the Commander, NAVAIR in his responsibilities as Chairman of the JACG. Lastly, provides direct support to AIR-1.0 and AIR-1.1 in designing and supporting the conduct of formal acquisition process training programs aimed at improving the knowledge and understanding of critical and core processes used by program teams/IPTs/EDTs to carry out their acquisition life cycle management responsibilities.

PROGRAM MANAGEMENT PROCUREMENT PROCESS MANAGEMENT AND INDUSTRIAL BASE SUPPORT (1.1.3/113000_) - Provides the tools, processes, resources, and references (guides, instructions, etc.) and generic program support for use by the PEOs, NAVAIR Acquisition Executive, and their program teams IPTs/EDTs to conduct weapons systems planning, procurement planning and document initiation, and industrial base planning and assessments. This includes processes, training, and expertise to develop Weapons Systems Planning Documents (WSPDs/Program Planning Documents (PPDs)); Procurement Initiation Documents (PIDs); analytical inputs for Industrial Base Assessments at ACAT I milestone reviews; industrial base portions of Requests for Authority to Negotiate and Decision Findings (RAN/DFs) and Acquisition Plan(s); administration of Defense Priorities and Allocation Systems (DPAS) and Diminishing Manufacturing Sources and Material Shortages (DM/MS) requirements. Serves as the focal point and technical authority for PEO/NAVAIRHQ nominations to the DoD Master Urgency List (MUL).

GOVERNMENT FURNISHED EQUIPMENT (GFE) POLICY AND PROCESS SUPPORT (1.1.4/114000_) - Provides the skills, processes, resources, and references (guides, instructions, etc.) and generic program support for use by the PEOs, NAVAIR Acquisition Executive, and their program teams IPTs/EDTs in pursuit of GFE management support objectives, including the acquisition and management of specialized and common weapons systems via the Master Government Furnished Equipment List (MGFEL) system; tracking of requirements, documents, contracts, and deliveries via the Integrated Production Management System (IPMS); working level services needed to obtain GFE from DoD/Army/ Navy/Air Force stock via the MILSTRIP Requisition Process for all NAVAIRHQ customers; management support for all CSS services within the procurement management and configuration management competency; and acquisition support for GFE actions which have no designated lead NAVAIR PMA (i.e., Global Positioning System, etc.). Also includes AIR-1.0 representation in and support of DoD/DoN/NAVAIR TEAM initiatives supporting paperless operations via IM/IT applications.

PROGRAM MANAGEMENT CONFIGURATION/DATA MANAGEMENT POLICY/ PROCESSES (1.1.5/115000_) - Provides the skills, processes, resources, and references (guides, instructions, etc.) for use by the PEOs, NAVAIR Acquisition Executive, and their program teams IPTs/EDTs in pursuit of configuration/data management support objectives. Plans, organizes, and manages Configuration Management and Data Management policies, criteria, procedures, and processes for the identification, documentation, control and reporting of engineering, production, and supportability requirements of as-built configurations of weapons systems, subsystems, and equipment. Includes DoD and DoN CM/DM policy, planning and acquisition documents used by the IPTs/EDTs within the CAO, and the extended planning community and other DoN/DoD activities including the Fleet; and coordination of CM requirements for DoN/DoD management information systems designed to support configuration management activities. Develops and executes competency training.

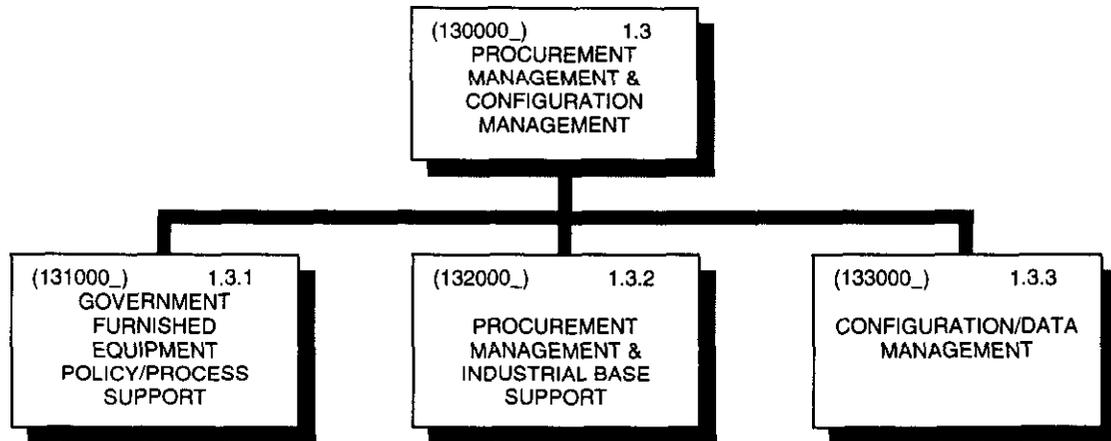
BUSINESS/FINANCIAL MANAGEMENT (BFM)
1.2/120000_



BUSINESS/FINANCIAL MANAGEMENT (BFM) (1.2/120000_) (Will be moved to the new 7.8 Competency) - Provides the training, tools, and work processes for use by program teams/IPTs/EDTs to translate program requirements into business/financial plans/programs, and assess current and future business base considerations. This includes the ability to manage financial plans and documents for the proper and timely execution of authorized funding; and plans, analyzes, and documents strategic and tactical planning road maps to provide a business, technical, and planning framework for the program business base. Consults with BFM representatives from the PEOs to develop skills, tools, and processes.

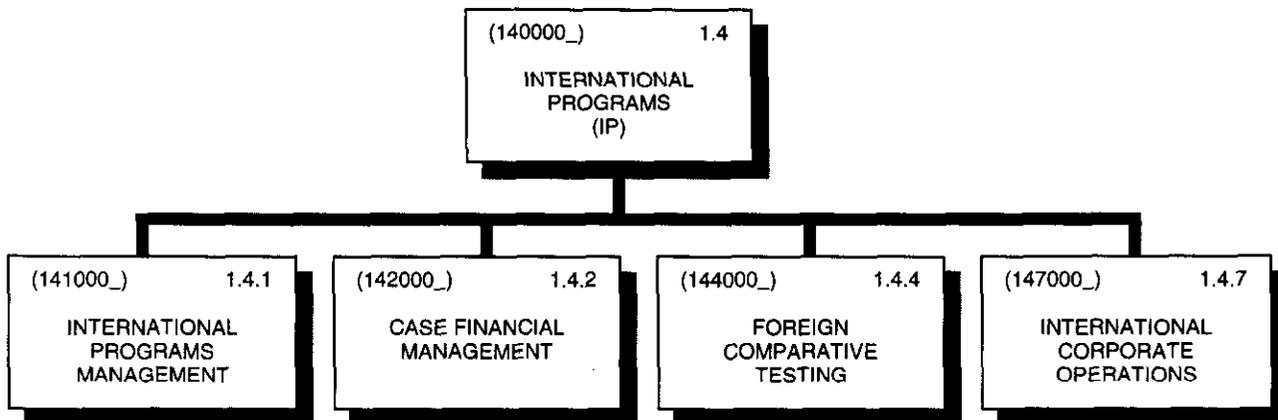
(Note: Like Program Management Support (1.1), NAVAIR/PEO program personnel involved in business/financial management functions of programs will be "aligned" under this competency area; however, their workload assignments will be affected by the PEO/AIR-1.0 as appropriate. Business/Financial Management (BFM) (1.2) includes only personnel performing business/financial management for program teams/IPTs. RFM personnel supporting competency organizations are aligned under their appropriated controlling competency, and those performing corporate comptroller functions are aligned to Corporate Operations (7.0)).

**PROCUREMENT MANAGEMENT AND CONFIGURATION MANAGEMENT
1.3/130000_**



NOTE: THESE LEVEL 2 AND 3 FUNCTIONS WERE MERGED TO OBS 1.1.

INTERNATIONAL PROGRAMS (IP)
1.4/140000_



INTERNATIONAL PROGRAMS (IP) (1.4/140000_) - Provides the skills, resources, work processes, and references necessary to develop, plan, direct, negotiate, and coordinate the TEAM's International Programs; establishes IP policy guidance and establishes standardized procedures; assigns FMS cases; and monitors IP status/performance within the TEAM; and conducts or assists in program negotiations with the Navy International Programs Office. Includes training for competency members and program personnel assigned to IPTs and EDTs to assist them in developing the skills necessary to plan, negotiate, execute, and monitor activities required to satisfy foreign customer requirements.

INTERNATIONAL PROGRAMS MANAGEMENT (1.4.1/141000_) - Provides IP competency support to develop international programs and FMS cases from inception to acceptance, including DSAMS FMS case development support and P&A/LOA data review. Formulates, implements, disseminates, and oversees IP policy and procedures. Maintains IP training requirements (career training path) for IP professionals. Facilitates IP course offerings via HRO/TIPS, sponsors/brings select IP courses on-site, and conducts the FMS Case Development workshop. Develops/maintains instructional/training material (P&A/LOA workshop, P&A/LOA desk top guide). Coordinates TEAM reporting for IP related DODIG/audits, Excess Defense Articles (EDA), Non-recurring Recoupment Charges (NRC), Leases, and the Transportation cost look-up table. Coordinates IP monthly newsletter.

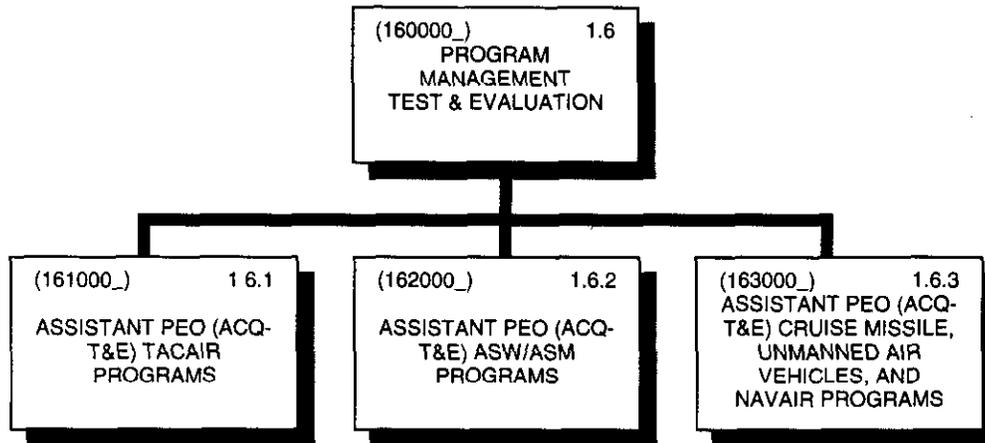
CASE FINANCIAL MANAGEMENT (1.4.2/142/000_) - Develops, implements, and manages select country IP programs; supports IP Financial Management and Control; manages/coordinates IP case closure program; a source of expertise on IP MISIL and DIFS management information systems; TEAM focal point for country program analyses, Case Reconciliation Reviews, and DSCA-hosted Financial Management reviews; conducts training for MISIL, Case

Closure, and Case Financial Management. Performs quality review of case amendments/modifications developed in DSAMS; represents USN on DSAMS development teams.

FOREIGN COMPARATIVE TESTING (1.4.4/144000_) - Supports NAVAIR PMAs through: promoting TEAM international program awareness of the Foreign Comparative Test (FCT) and International Cooperative Programs opportunities; assisting PMAs in FCT proposal preparation; TEAM oversight of the NAVAIR FCT Program process to Navy IPO and OSD; maintaining liaison with other services to identify areas where cooperation exists; communicating to foreign governments and industry the FCT and related international programs message; serving as NAVAIR focal point for related International S&T programs and International Memoranda of Understanding/Agreement.

INTERNATIONAL CORPORATE OPERATIONS (1.4.7/147000_) - Develops IP administrative budgets; tracks IP billets within the TEAM; and develops annual budgets for the FCT Program and Foreign Trainee Information Program. Apportions IP Administrative Budget and Resources; apportions IP billets and expenditure rates. Manages the TEAM's security assistance automation project and focal point for Supply Discrepancy Reports.

**PROGRAM MANAGEMENT TEST AND EVALUATION
1.6/160000_**



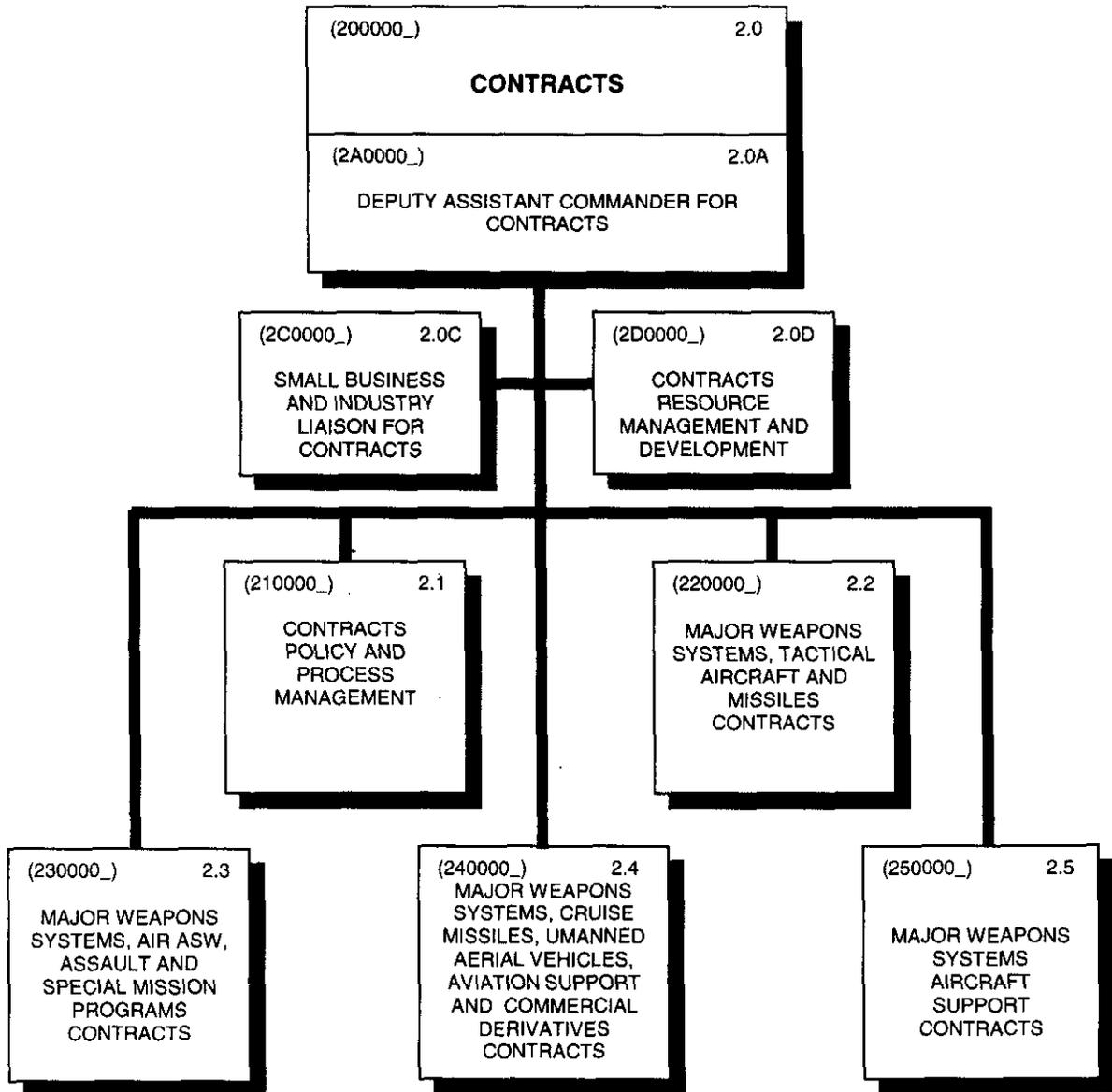
PROGRAM MANAGEMENT TEST AND EVALUATION (1.6/160000_) - Provides policy, guidance, and support services relating to program management of Test and Evaluation (T&E) for acquisition programs. Skilled personnel, standard processes, and tools are provided to Program Executive Officers (PEOs), Program Managers (PMs), and their teams/IPTs for the master planning and management of developmental and operational test activities throughout the acquisition cycle. Develops and/or coordinates program Test and Evaluation Master Plans and supports operational test readiness reviews for the certification of readiness of systems entering operational test.

ASSISTANT PEO (ACQ-T&E) TACAIR PROGRAMS (1.6.1/161000_) - Provides acquisition and T&E expertise for tactical aircraft programs in support of PEO(T), PEO(T) PMs, and their teams/IPTs.

ASSISTANT PEO (ACQ-T&E) ASW/ASM PROGRAMS (1.6.2/162000_) - Provides acquisition and T&E expertise for Anti-Submarine warfare, assault, and special mission aircraft programs in support of PEO(A), PEO(A) PMs, and their teams/IPTs.

ASSISTANT PEO (ACQ-T&E) CRUISE MISSILE, UNMANNED AIR VEHICLES, AND NAVAIR PROGRAMS (1.6.3/163000_) - Provides acquisition and T&E expertise for non-Tomahawk cruise missile weapon systems, targets, and unmanned air vehicles to PEO(CU), PEO(CU) PMs, and their IPTs. Provides acquisition and T&E expertise in support of AIR-1.0, AIR-1.0 PMs and their teams/IPTs for aircraft and systems of the Naval Air Systems Command.

**CONTRACTS
2.0/200000_**



CONTRACTS (2.0/200000_) - Responsible to contract for the supplies, services, and material requirements of TEAM aircraft and weapon systems by providing key membership to Integrated Program Teams (IPTs), Enterprise Teams (ETs), and Externally Directed Teams (EDTs), industry liaison responsibilities, competency management and leadership, and policy and process management.

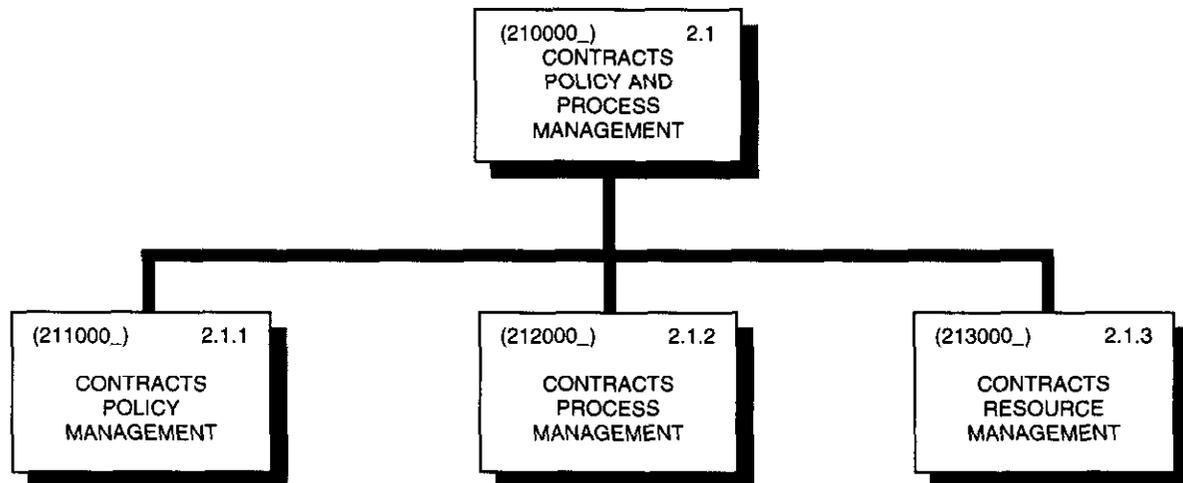
DEPUTY ASSISTANT COMMANDER FOR CONTRACTS (2.0A/2A0000_) – Assists the NAVAIR Contracting Executive in monitoring the cost, schedule, and performance of assigned NAVAIR contracting programs. Defines generic program support

requirements needed by assigned program teams/IPTs/ETs/EDTs in such areas as resource management, acquisition policy/documentation, weapons system planning, production management, test and evaluation policy and procedures, and procurement process support.

SMALL BUSINESS AND INDUSTRY LIAISON FOR CONTRACTS (2.0C/ 2C0000_) - Headed by the Director of the Small Business and Industry Liaison for Contracts, will be a fully integrated entity, seamlessly coordinating the responsibilities of headquarters and field level organizations. The Director is the senior advisor to the Commander, Naval Air Systems Command, the Program Executive Officers, and reports directly to the Commander on small business issues. In performing these duties the Director ensures that the TEAM is in compliance with all Public Laws established under the Small Business Act. In the performance of these duties the Industry Liaison staff will report directly to the Small Business Officer and provide TEAM support. Those Small Business specialists in the field will report directly to the Small Business Director. Their specific duties and responsibilities are to provide technical advice and guidance in all matters affecting Small Business and industry liaison. This staff is also responsible for coordination and interface with the Navy's Small Business Officer regarding the Small Business Program goals and objectives.

CONTRACTS RESOURCE MANAGEMENT AND DEVELOPMENT (2.0D/ 2D0000_) - Develops, coordinates, and provides an administrative management program and related resource management program for the Contracts Competency. Provides advice and guidance to competency managers on a variety of management and/or administrative subjects. Includes implementing total resource management policy and procedural guidance, personnel management, position management, resource management support for DAWIA, training, travel, and local administrator over the Naval Acquisition Intern Program.

CONTRACTS POLICY AND PROCESS MANAGEMENT AIR 2.1/210000_



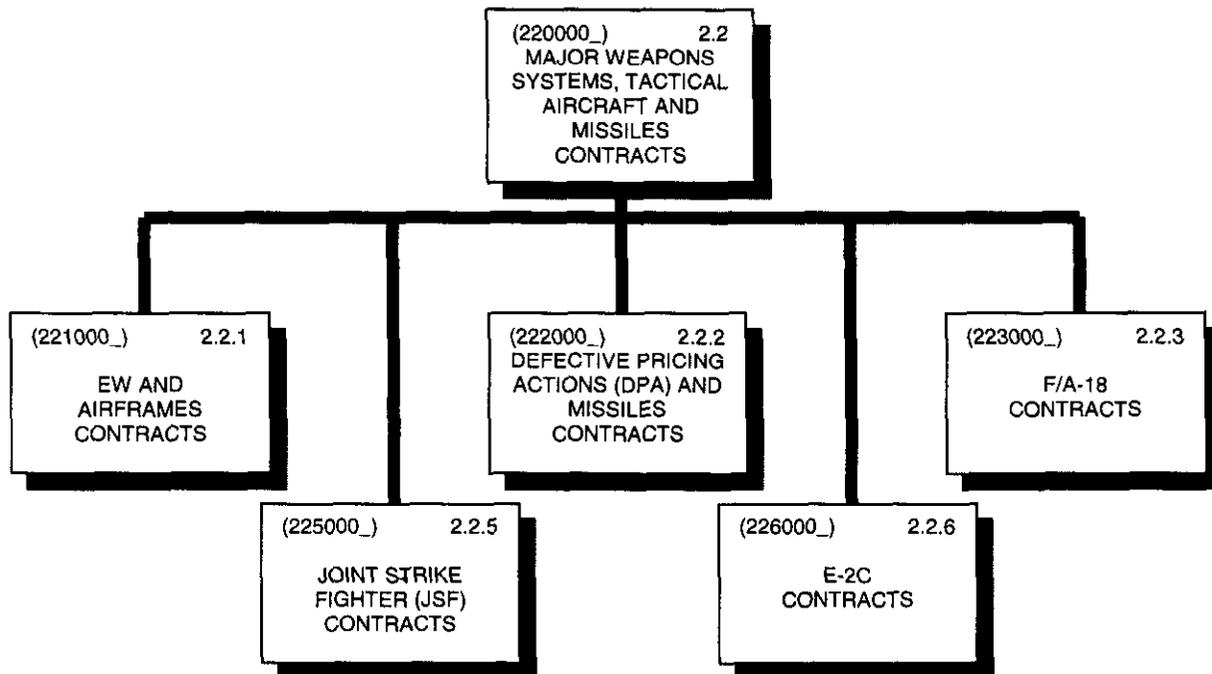
CONTRACTS POLICY AND PROCESS MANAGEMENT (2.1/210000_) - Develops, maintains, supports, and manages contract policy and processes as well as coordinate development and implementation of TEAM acquisition policy. Provides the tools and defines processes to ensure effective management of contract and acquisition policy, human and financial management, small purchases policy coordination and implementation, with NAVSUP, contract automation systems management, reporting requirements, and other operational support functions.

CONTRACTS POLICY MANAGEMENT (2.1.1/211000_) - Assures compliance with law and regulations and responds to outside agencies/activities. This includes responsibility for Procurement Management Reviews (PMRs), contracting processes, formulation and generation of procurement policy, interpretation and implementation of congressional/OSD policy, coordination and investigation of DoD, IG, NIS, and other agency cases and audits, review and approval as Contracting Officer of economy act transfers, formulation and preparation of contract reports for ASN, OSD, and Congress.

CONTRACTS PROCESS MANAGEMENT (2.1.2/212000_) - Ensures generation and maintenance of contracts as well as the integrated functioning of the contracts competency. This includes maintenance of contract files, contract preparation, contract distribution, contract status/reporting, and contract process automation and system administration.

CONTRACTS RESOURCE MANAGEMENT (2.1.3/213000_) - Manages the human and financial resources for the Contracts Competency.

**MAJOR WEAPONS SYSTEMS, TACTICAL AIRCRAFT & MISSILES CONTRACTS
 2.2/220000_**



MAJOR WEAPONS SYSTEMS, TACTICAL AIRCRAFT AND MISSILES CONTRACTS (2.2/220000_) - Responsible for central management and planning for assigned programs. This may involve management of procurements that are executed by PCOs not within the immediate supervision of this level 2 Head. In providing support for naval aviation programs assigned to Program Executive Officer for Tactical Aircraft Programs (PEO(T)) and PEO Joint Strike Fighter (JSF), also serves as the Assistant Program Executive Officer (APEO) for Contracts. PCO teams, under this department's supervision will provide key members for PEO(T)/JSF IPTs for the planning, negotiating, execution and administration of contracts. The PCO teams shall provide the following expertise; acquisition planning, business strategy development, solicitation formulation and generation, business clearances, formulation, generation and award of contracts and modifications, cost and price analysis, negotiations, source selection, Federal Information Processing (FIP) determination, conducting and participating in Contract Review Boards, contract administration, reporting, close-out, file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

EW AND AIRFRAMES CONTRACTS (2.2.1/221000_) – Manages and executes the contracting functions and serves as the first-line supervisor for assigned Airframe and Tactical EW programs.

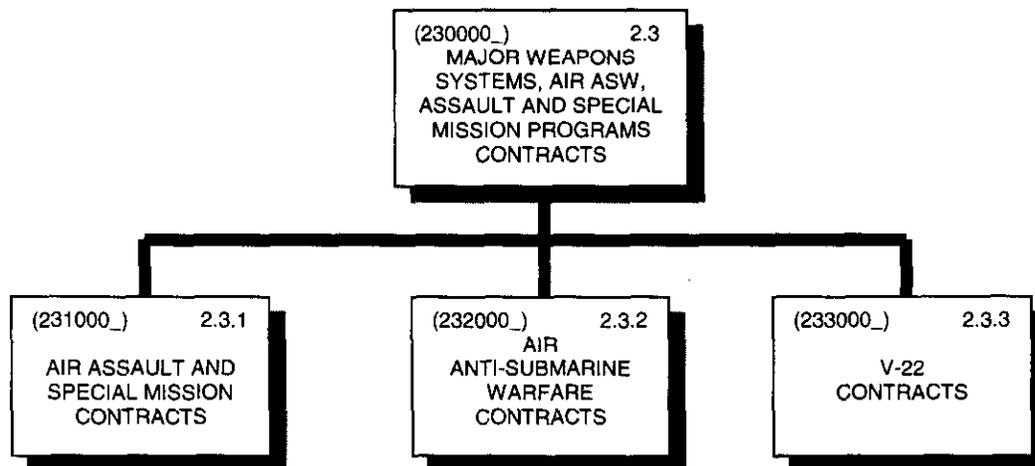
DEFECTIVE PRICING ACTIONS (DPA) AND MISSILES CONTRACTS (2.2.2/222000_) - Manages and executes the contracting functions and serves as the first-line supervisor for assigned Missiles and Defective Pricing programs. Manages the defective pricing actions for PEO(T) contracts.

F/A-18 CONTRACTS (2.2.3/223000_) - Manages and executes the contracting functions and serves as the first-line supervisor for assigned F/A-18 Production and Propulsion programs and F/A-18 Development, FMS, and PPS Programs.

JOINT STRIKE FIGHTER (JSF) CONTRACTS (2.2.5/225000_) - Manages and executes the contracting functions for the JSF Program. This PCO reports directly to the level 2 head and serves as the first-line supervisor for their respective staff.

E-2C CONTRACTS (2.2.6/226000_) - Manages and executes the contracting functions for the E-2C Program. This PCO reports directly to the level 2 head and serves as the first-line supervisor for their respective staff.

**MAJOR WEAPONS SYSTEMS, AIR ASW, ASSAULT AND SPECIAL MISSION
 PROGRAMS CONTRACTS
 2.3/230000_**



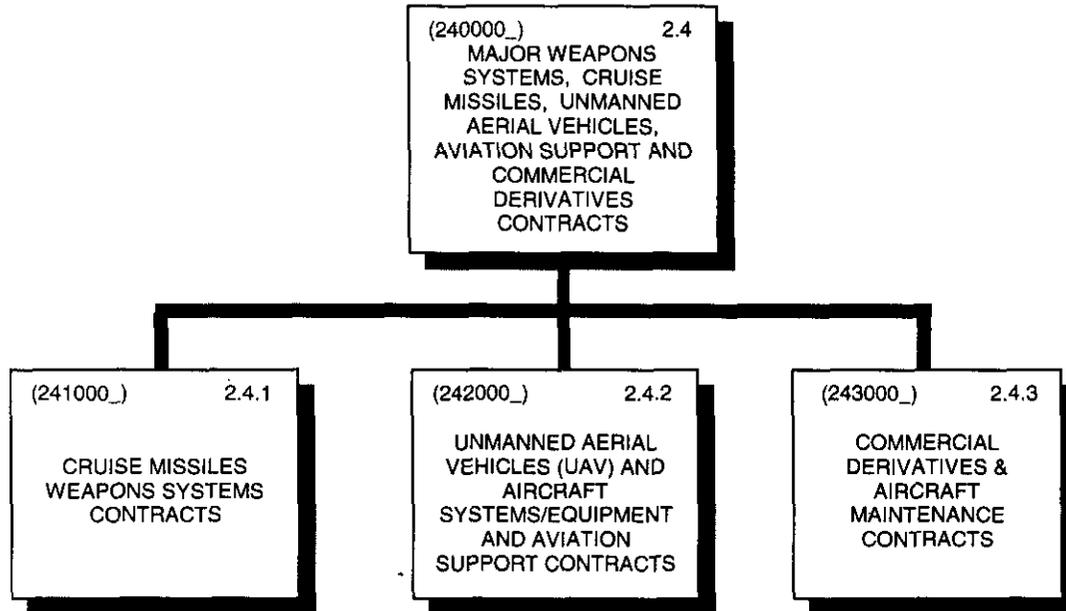
MAJOR WEAPONS SYSTEMS, AIR ASW, ASSAULT AND SPECIAL MISSION PROGRAMS CONTRACTS (2.3/230000_) - Responsible for central management and planning for assigned programs. This may involve management of procurements which are executed by PCOs not within the immediate supervision of the level 2 head. In providing support for naval aviation programs assigned to Program Executive Officer for Air ASW, Assault and Special Mission Programs (PEO(A)), also serves as the Assistant Program Executive Officer (APEO) for Contracts. PCO teams, under this level 2 supervision will provide key members for PEO(A) IPTs for the planning, negotiating, execution and administration of contracts. The PCO teams shall provide the following expertise: acquisition planning, business strategy development, solicitation formulation and generation, business clearances, formulation, generation and award of contracts and modifications, cost and price analysis, negotiations, source selection, contract administration, reporting, close-out, file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

AIR ASSAULT AND SPECIAL MISSION CONTRACTS (2.3.1/231000_) - Manages and executes the contracting functions and serves as the first-line supervisor for assigned programs.

AIR ANTI-SUBMARINE WARFARE CONTRACTS (2.3.2/232000_) - Manages and executes the contracting functions and serves as the first-line supervisor for assigned programs.

V-22 CONTRACTS (2.3.3/233000_) - Manages and executes the contracting functions for the V-22. PCO reports directly to the level 2 head and serves as the first-line supervisor for the staff.

**MAJOR WEAPONS SYSTEMS, CRUISE MISSILES, UNMANNED AERIAL
VEHICLES, AVIATION SUPPORT AND COMMERCIAL DERIVATIVES CONTRACTS
2.4/240000_**



MAJOR WEAPONS SYSTEMS, CRUISE MISSILES, UNMANNED AERIAL VEHICLES, AVIATION SUPPORT AND COMMERCIAL DERIVATIVES CONTRACTS (2.4/240000_) - Responsible for central management and planning for assigned programs. This may involve coordination of procurements, which are executed by PCOs not within the immediate supervision of the level 2 head. In providing support for naval aviation programs assigned to Program Executive Officer for Cruise Missiles and Unmanned Aerial Vehicles (PEO(CU)) and the Deputy for Acquisition and Operations (AIR-1.0) programs. In addition, the level 2 head serves as the Assistant Program Executive Officer (APEO) for contracts. PCO teams under this department's supervision will provide key members for PEO(CU) and Program Management IPTs for the planning, negotiating, execution and administration of contracts. The PCO teams shall provide the following expertise: acquisition planning, business strategy development, solicitation formulation and generation, business clearances, formulation, generation and award of contracts and modifications, cost and price analysis, negotiations, source selection, Federal Information Processing (FIP) determination, conducting and participating in Contract Review Boards, contract administration, reporting, close-out, file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

CRUISE MISSILES WEAPONS SYSTEMS CONTRACTS (2.4.1/241000_) - Manages and executes the contracting functions. This level 3 head serves as the first-line supervisor for the competency members assigned to the Tomahawk and Harpoon/SLAM/Penguin Programs.

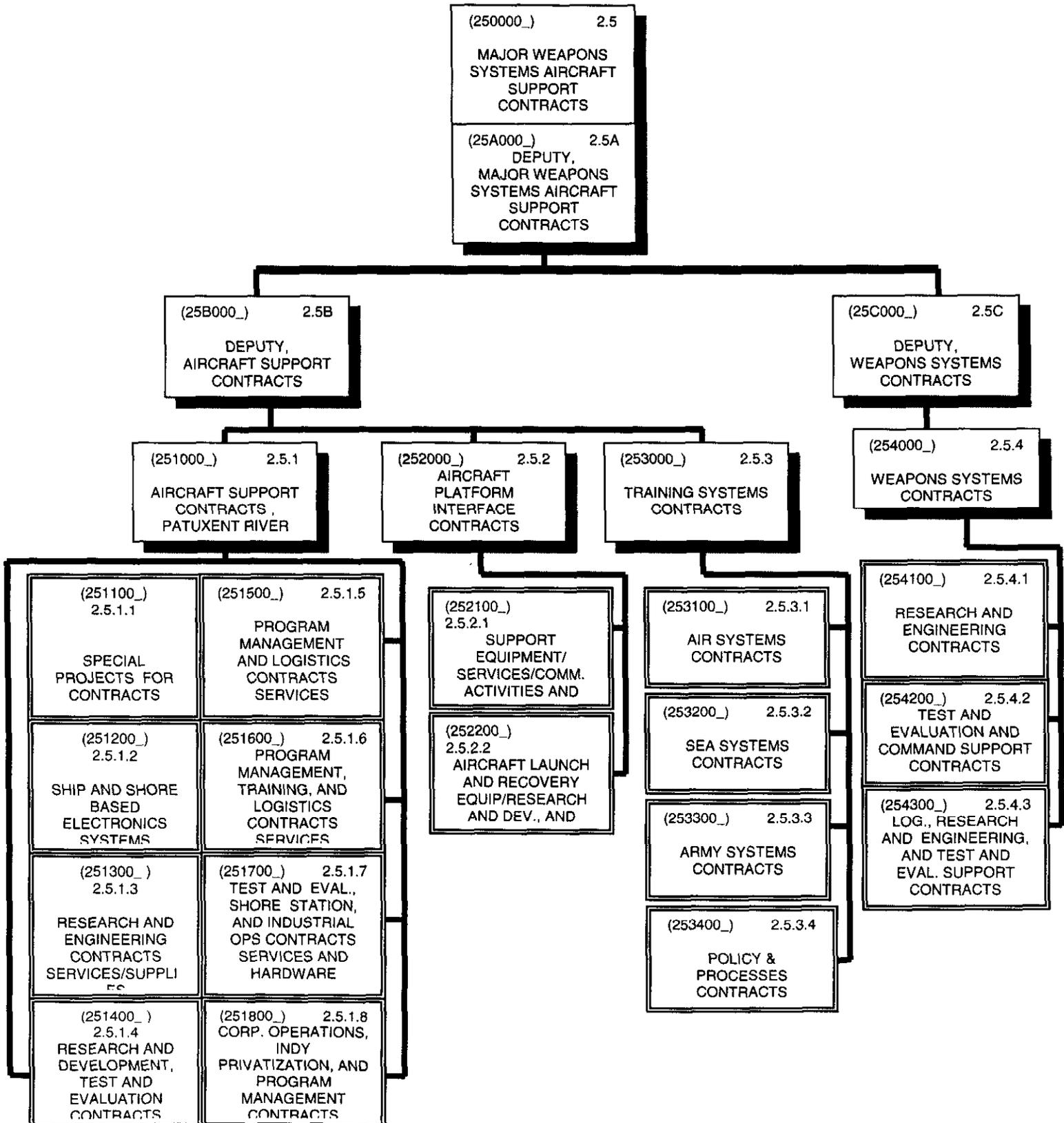
**UNMANNED AERIAL VEHICLES (UAV) AND AIRCRAFT SYSTEMS/
EQUIPMENT AND AVIATION SUPPORT CONTRACTS (2.4.2/242000_) -**

Manages and executes the contracting functions. This level 3 head serves as the first-line supervisor for the competency members assigned to the Unmanned Aerial Vehicles, Aircraft Systems/Equipment and Aviation Support Programs.

**COMMERCIAL DERIVATIVES AND AIRCRAFT MAINTENANCE CONTRACTS
(2.4.3/243000_) -**

Manages and executes the contracting functions. This level 3 head serves as the first-line supervisor for the competency members assigned to the Commercial Derivatives and Aircraft Maintenance Programs.

**MAJOR WEAPONS SYSTEMS AIRCRAFT SUPPORT CONTRACTS
2.5/250000_**



MAJOR WEAPONS SYSTEMS AIRCRAFT SUPPORT CONTRACTS (2.5/250000_) - Responsible for central management, planning and leadership of assigned programs and people currently in excess of 500, which cover a wide range of complex and non-complex procurements of major and less-than-major weapons systems and information technology involving hundreds of customers at multiple locations. The organization is a mixture of NWCF, EOB, and reimbursable funded sites. The PCO teams provide full-services contracting expertise in the following areas: acquisition planning, business strategy development, solicitation formulation, business clearance generation, contract awards and modifications, cost, price and price based acquisition analysis, negotiation, source selection, claims review, analysis and avoidance and alternate disputes resolution, simplified acquisition and purchase card acquisition.

DEPUTY, MAJOR WEAPONS SYSTEMS AIRCRAFT SUPPORT CONTRACTS (2.5A/25A000_) - Assists the level 2 head with acquisition planning, business strategy development, solicitation formulation, business clearance generation, contract awards and modifications, cost, price and price based acquisition analysis, negotiation, source selection, claims review, analysis and avoidance and alternate disputes resolution, simplified acquisition, and purchase card acquisition.

DEPUTY, AIRCRAFT SUPPORT CONTRACTS (2.5B/25B000_) - With contracting teams located at Patuxent River, Maryland; Lakehurst, New Jersey; and Orlando, Florida; provides contracting expertise in procuring support services, facilities, maintenance, training, and hardware for Navy/Marine Corps aircraft.

AIRCRAFT SUPPORT CONTRACTS, PATUXENT RIVER (2.5.1/251000_) - Provides acquisition planning, business strategy development, solicitation formulation, business clearance generation, contract awards and modifications, cost, price and price based acquisition analysis, negotiation, source selection, claims review, analysis and avoidance and alternate disputes resolution, simplified acquisition, and purchase card acquisition. This also includes post-award contract administration, contract reporting, contract close-out, contract file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

SPECIAL PROJECTS FOR CONTRACTS (2.5.1.1/251100_) - Conducts Commercial Activities Studies (OMB A-76) for all Patuxent River announcements. Serves as TEAM-wide CA Contracting Coordinator. Provides staffing support for all NAVAIR CA Appeals. Also conducts CA Studies for announcements at NADEPs Cherry Point and Jacksonville. Conducts other contracting actions and studies not specifically identified with an existing customer base.

SHIP AND SHORE BASED ELECTRONICS SYSTEMS CONTRACTS (2.5.1.2/251200_) - Serves as the Procuring Contracting Officer to this Level 4 organization for services and hardware procurements including acquisitions via Simplified Acquisition Procedures (SAP). This includes the award of delivery

orders under Indefinite Delivery/Indefinite Quantity Contracts, Basic Ordering Agreements, and Blanket Purchase Agreements, the issuance of incremental funding modifications for Level of Effort type contracts, contract option exercises, and the administration of over many active contracts.

RESEARCH AND ENGINEERING CONTRACTS SERVICES/ SUPPLIES (2.5.1.3/251300_) - Serves as Procuring Contracting Officer to Research and Development and Small Business Innovation Research (SBIR); Systems Engineering; Cost; Air Vehicle; Crew Systems; Support Engineering and Aircraft Launch and Recovery Equipment; and Warfare Analysis for services and supplies of large contracts and Simplified Acquisitions

RESEARCH AND DEVELOPMENT, TEST AND EVALUATION CONTRACTS SERVICES/SUPPLIES (2.5.1.4/151400_) - Serves as Procuring Contracting Officer to Propulsion and Power Engineering; Avionics; Test and Evaluation Engineering; and PMAs - Air ASW Systems, Maritime Surveillance Aircraft, and Program Manager Cherry Point for services and supplies of large contracts and Simplified Acquisitions.

PROGRAM MANAGEMENT AND LOGISTICS CONTRACTS SERVICES (2.5.1.5/251500_) - The Procuring Contracting Officer to PMAs and Logistics Competency for Advisory and Assistance Services and Simplified Acquisition.

PROGRAM MANAGEMENT, TRAINING, AND LOGISTICS CONTRACTS SERVICES (2.5.1.6/251600_) - Serves as Procuring Contracting Officer to Aviation Training Systems, Program Management, Contracts, and Logistics for Computer Based Training (CBT), Advanced Distributed Learning (ADL), Navy Training System Plans (NTSP), Contract And Advisory Services (CAAS), and Simplified Acquisition. This includes the award of delivery orders against thirteen contracts.

TEST AND EVALUATION, SHORE STATION, AND INDUSTRIAL OPERATIONS CONTRACTS SERVICES AND HARDWARE (2.5.1.7/251700_) - Serves as the Procuring Contracting Officer for Test and Evaluation, Industrial Operations/Depot Contracts and VSV (Virtual Secondary Vendor), IT Services, Hardware and Software (GSA, BPAs and "Click and Buy", Shore Station Contracts and special assignments, such as Enterprise Resource Planning (ERP) contracts, Aviation Separation Video (ASV), Beartrap Program, and the Purchase Card Program. The contract values range from multi-million dollar efforts to simplified acquisition, cradle to grave. The PCO serves as the Contracting Officer for NAVAIR and NAWCAD Close-outs, member of the NAWCAD Investment Focus Group and Business Plan Working Group.

CORPORATE OPERATIONS, INDY PRIVATIZATION, AND PROGRAM MANAGEMENT CONTRACTS (2.5.1.8/251800_) - Serves as Procuring Contracting Officer for NAWCAD/NAVAIR Corporate Operations, NAWCAD Indianapolis Privatization, and several PMA's.

AIRCRAFT PLATFORM INTERFACE CONTRACTS (2.5.2/252000_) - Provides acquisition planning, business strategy development, solicitation formulation, business clearance generation, contract awards and modifications, cost, price and price based acquisition analysis, negotiation, source selection, claims review, analysis and avoidance and alternate disputes resolution, simplified acquisition, and purchase card acquisition. This also includes post-award contract administration, contract reporting, contract close-out, contract file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

SUPPORT EQUIPMENT/SERVICES/COMMERCIAL ACTIVITIES AND BASE SUPPORT CONTRACTS (2.5.2.1/252100_) - Acquires supplies, services, and research and development in direct support of the NAWCAD Competency Centers, IPTs and EDTs in the areas of Common/Peculiar Support Equipment, Avionics and Cass TPS development/support. This team services a myriad of programs from various PMA's. Additionally, conducts A76 studies both for NAWCAD and outside customers, participates in the national effort to support TEAM Logistics, as well as providing base support services and competency support in the areas of Credit Card Purchases, EDA support, etc.

AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT/RESEARCH AND DEVELOPMENT, AND LOGISTICS SERVICES CONTRACTS (2.5.2.2/252200_) - Acquires supplies, services, and research and development in support of the NAWCAD Competency Centers, IPTs and EDTs in the area of Aircraft Launch and Recovery Equipment. This team services a number of programs from several PMA's. Additionally, provides expertise to various competencies in acquiring engineering and technical services, as well as participating as a major player on the TEAM Small Business Innovative Research Program.

TRAINING SYSTEMS CONTRACTS (2.5.3/253000_) - Provides acquisition planning, business strategy development, solicitation formulation, business clearance generation, contract awards and modifications, cost, price and price based acquisition analysis, negotiation, source selection, claims review, analysis and avoidance and alternate disputes resolution, simplified acquisition, and purchase card acquisition. This also includes post-award contract administration, contract reporting, contract close-out, contract file maintenance, claim adjudication, disposition of defective pricing actions, and participation in litigation activities.

AIR SYSTEMS CONTRACTS (2.5.3.1/253100_) - Handles those activities required in the planning and actual execution of Aviation Training Systems contracts.

SEA SYSTEMS CONTRACTS (2.5.3.2/253200_) - Handles those activities required in the planning and actual execution of surface, submarine and other contracts.

ARMY SYSTEMS CONTRACTS (2.5.3.3/253300_) - Handles those activities required in the planning and actual execution of U.S. Army (STRICOM) contracts.

POLICY AND PROCESSES CONTRACTS (2.5.3.4/253400_) - At NAWCTSD, advises management and contracting personnel of significant policies and processes, and coordinates in the development and implementation of TEAM acquisition policy. Provides support and guidance to ensure effective management of human and financial resources, small purchases policy coordination and implementation, contract automation systems management, reporting requirements, and other operational support functions.

DEPUTY, WEAPONS SYSTEMS CONTRACTS (2.5C/25C000_) - With contracting teams located at China Lake and Point Mugu, California, provides Level 2 contracting expertise in procuring Research and Engineering, Test and Evaluation, and Logistics support for aircraft weapon systems development and integration.

WEAPONS SYSTEMS CONTRACTS (2.5.4/254000_) - Provides the full range of activities required in business strategy development, and the planning, execution, administration, and final close out of contracts and simplified purchases. In addition, provides Purchase Card and SPEDI Project Offices support and has a senior property manager on staff. This TEAM is designated Center of Excellence for grants, cooperative agreements and other transactions. Our Business Systems Office provides a wide range of administrative, procurement, and automation support to the Contracts Competency. Expertise includes providing decision making information in the areas of finance, personnel, training, safety, security, and facilities as well as procurement policies, procedures, and quality and productivity metrics. A full spectrum automation capability, including a 1600 square foot Business Computing Center, a LAN Lab and associated network and data communication infrastructure, supports daily contract operations at both China Lake and Point Mugu and numerous process improvement and business process redesign initiatives. An in-house Help Desk, two 10-seat computer-training rooms, and various other tools provide creative, high tech support to the competency and its customers.

RESEARCH AND ENGINEERING CONTRACTS (2.5.4.1/254100_) - With contracting teams located at China Lake, provides the people, processes, skills, knowledge, facilities, and equipment necessary to

perform the complete contracting functions for the Research and Engineering Competency, including IPTs, ETs, and EDTs. The PCO Enterprise contracting teams provide the full range of activities required in the planning, execution, and administration of contracts in support of the technical requirements of the Research and Engineering Competency.

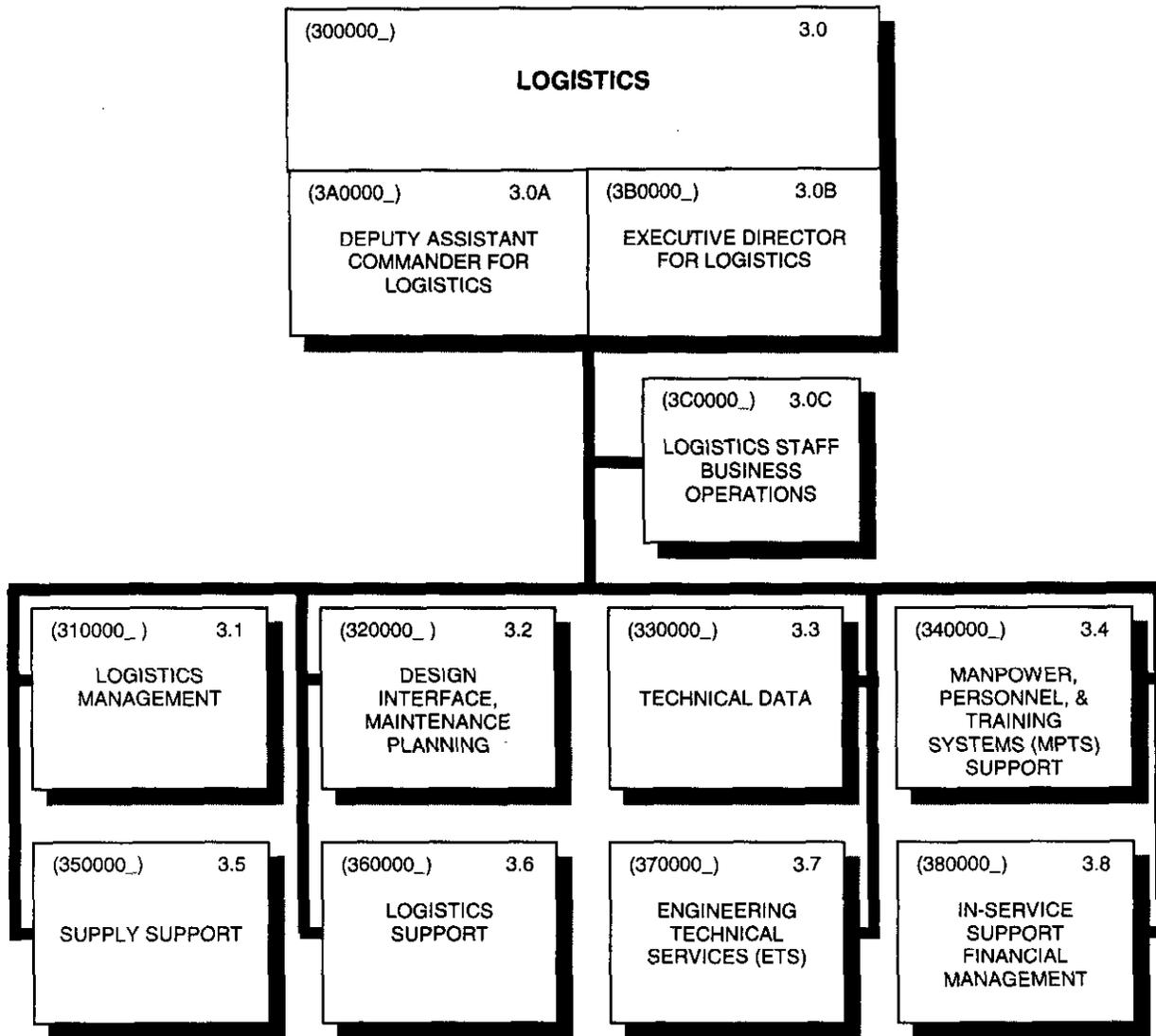
TEST AND EVALUATION AND COMMAND SUPPORT CONTRACTS (2.5.4.2/254200_) - The Test and Evaluation and Command Support

Contracts with contracting teams located at China Lake, provides the people, processes, skills, knowledge, facilities, and equipment necessary to perform the complete contracting function for the Test and Evaluation Competency and other competencies. Support is provided to IPTs, ETs, EDTs, and tenant activities located at the China Lake and White Sands sites. Contracting functions include, pre-award, post-award, and contract administration. Simplified Purchase, Purchase Card, and SPEDI support is also provided.

LOGISTICS, RESEARCH AND ENGINEERING, AND TEST AND EVALUATION SUPPORT CONTRACTS (2.5.4.3/254300_) - With contracting

teams located at Point Mugu, provides the people, processes, skills, knowledge, facilities and equipment necessary to perform the complete contracting function for all customers at the Point Mugu site, to include IPTs, ETs, EDTs, and Tenant activities. Contracting functions include, pre-award, post-award, and contract administration. Simplified Purchase and Purchase Card support is also provided.

**LOGISTICS
3.0/300000_**



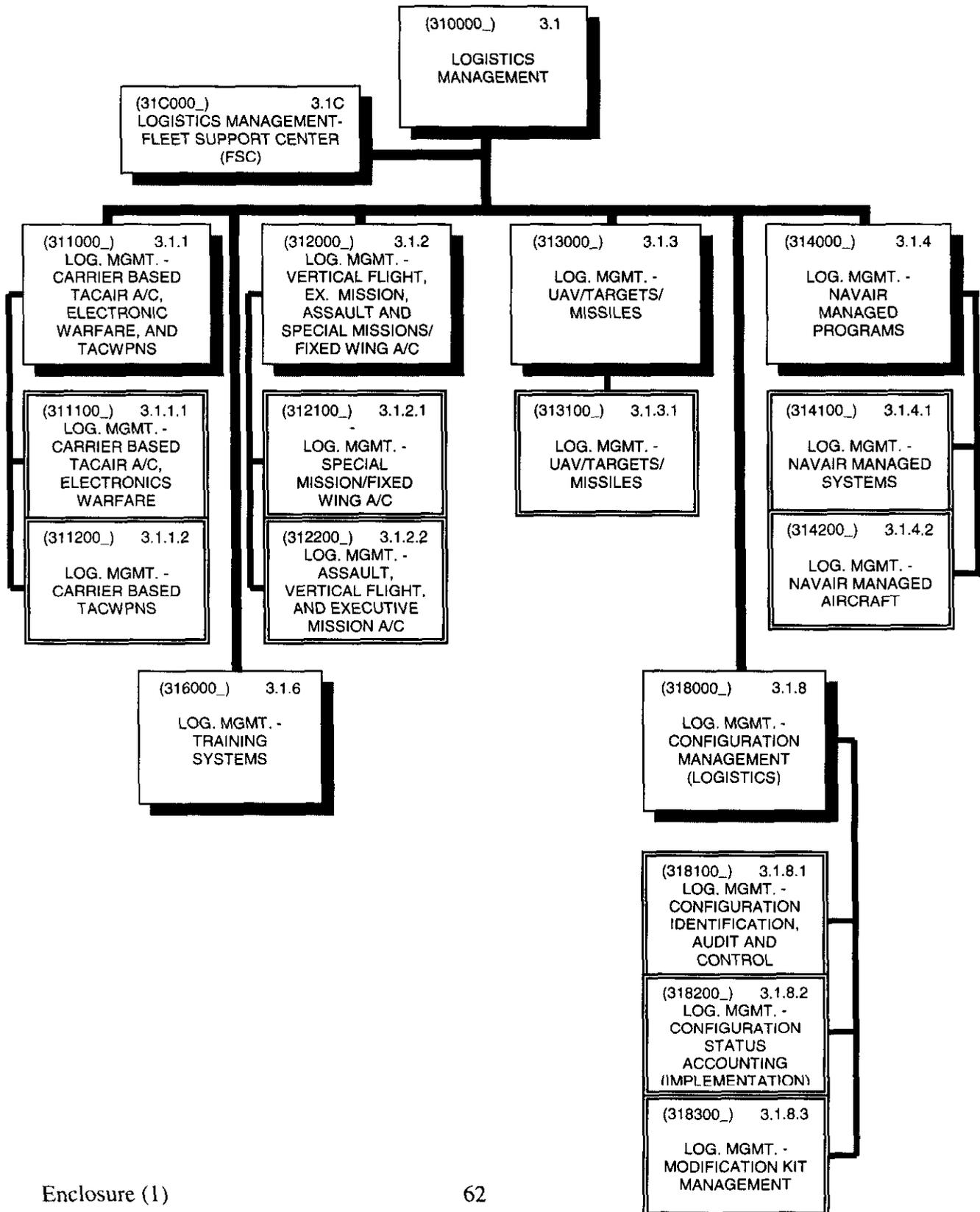
LOGISTICS (3.0/300000_) - Provides the resources to develop, plan, and integrate support considerations into designs; and to establish and maintain integrated logistics support capable of supporting fleet operations and maintenance throughout the full life cycle of aviation weapon systems and related equipment. The principal focus is support of IPTs and Enterprise demands.

DEPUTY ASSISTANT COMMANDER FOR LOGISTICS (3.0A/3A0000_)

EXECUTIVE DIRECTOR FOR LOGISTICS (3.0B/3B0000_)

LOGISTICS STAFF BUSINESS OPERATIONS (3.0C/3C0000_) - Provides the resources to provide administrative and business operations support to Logistics.

**LOGISTICS MANAGEMENT
3.1/310000_**



LOGISTICS MANAGEMENT (3.1/310000_) - Provides the resources to manage the planning, development, acquisition, integration, and delivery of all ILS elements to design, support, and maintain a system. Logistics management is continuously performed during all program phases from concept exploration through disposal.

LOGISTICS MANAGEMENT - FLEET SUPPORT CENTER (FSC) (3.1C/31C000_) - Primary liaison for fleet readiness and support issues, which are not specific to a weapon systems or equipment. Product support functional areas include Propulsion Management, Support Equipment Rework, Metrology and Calibration, Mobile Facilities, Technical Directive Status Accounting, and Support Analysis.

LOGISTICS MANAGEMENT - CARRIER BASED TACAIR A/C, ELECTRONIC WARFARE, AND TACWPNS (3.1.1/311000_) - Sustains the design, support, and maintenance of domestic and Foreign Military Sales (FMS) carrier based tactical aircraft, tactical weapons, and electronic warfare systems, including associated propulsion systems; Assistant Program Executive Officer for Logistics (APEOL) for tactical aircraft/systems. Member of Program Executive Officer's staff for logistics matters associated with tactical programs and provides non-intrusive logistics technical oversight for programs within the PEO.

LOGISTICS MANAGEMENT - CARRIER BASED TACAIR A/C, ELECTRONICS WARFARE (3.1.1.1/311100_) - Sustains the design, support, and maintenance of domestic and FMS tactical aircraft and electronics warfare systems including associated propulsion systems. Assistant Program Executive Officer for Logistics for Tactical Aircraft, Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers, and Business Financial Managers for tactical aircraft and electronics warfare systems/programs. Provides logistics support for tactical aircraft, electronics warfare systems, and ILS business/financial matters for tactical aircraft, and electronics warfare systems/programs, including associated propulsion systems.

LOGISTICS MANAGEMENT - CARRIER BASED TACWPNS (3.1.1.2/311200_) - Sustains the design, support, and maintenance of tactical weapons. Assistant Program Executive Officer for Logistics for Tactical Weapons, Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers and Business Financial Managers for Tactical weapons programs. Provides logistics support for tactical weapons systems and ILS business/financial matters for tactical weapons programs.

LOGISTICS MANAGEMENT - VERTICAL FLIGHT, EXECUTIVE MISSION, ASSAULT AND SPECIAL MISSIONS/FIXED WING A/C (3.1.2/312000_) - Sustains the design, support, and maintenance for domestic and FMS Vertical

Flight, Executive Mission Assault and Special Mission/Fixed Wing aircraft. Assistant Program Executive Officer for Logistics (APEOL) for Vertical Flight, Executive Mission Assault and Special Mission/Fixed Wing aircraft, including associated propulsion systems. Member of the Program Executive Officer's staff for Logistics matters associated with AIR ASW, Assault and Special Missions aircraft, and provides non-intrusive logistics technical oversight for programs within the PEO.

LOGISTICS MANAGEMENT - SPECIAL MISSION/FIXED WING A/C (3.1.2.1/312100_) - Sustains the design, support, and maintenance of domestic and FMS Special Mission/Fixed Wing A/C. Assistant Program Executive Officer for Logistics for Special Mission/Fixed Wing A/C and associated propulsion systems. Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers and Business Financial Managers for Fixed Wing and Special Missions aircraft programs, and associated propulsion systems. Provides logistics support and ILS business financial management for Fixed Wing and Special Missions aircraft systems/programs.

LOGISTICS MANAGEMENT - ASSAULT, VERTICAL FLIGHT AND EXECUTIVE MISSION A/C (3.1.2.2/312200_) - Sustains the design, support, and maintenance of domestic and FMS Assault, Vertical Flight and Executive Mission Aircraft and associated propulsion systems. Assistant Program Executive Officer for Assault, Vertical Flight and Executive Mission aircraft, Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers and Business Financial Managers for Assault, Vertical Flight and Executive Mission A/C and associated propulsion systems. Provides logistics support and ILS business financial management for Assault, Vertical Flight, and Executive Mission aircraft systems/programs.

LOGISTICS MANAGEMENT - UAV/TARGETS/MISSILES (3.1.3/313000_) - Sustains the design, support, and maintenance for domestic and FMS of UAV, targets, and missiles. Assistant Program Executive Officer for Logistics (APEOL) for UAV/Targets/Missiles. Member of Program Executive Officer's staff for Logistics matters associated with UAV/Targets and Missile systems/programs and provides non-intrusive Logistics technical oversight for programs within the PEO.

LOGISTICS MANAGEMENT - UAV/TARGETS/MISSILES (3.1.3.1/313100_) - Sustains the design, support, and maintenance for domestic and FMS of UAV/Targets/Missile systems. Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics

Managers and Business Financial Managers for UAV/Targets/Missile systems/programs. Provides logistics support for UAV, targets, missile systems and ILS business financial management for UAV, Targets, and missile systems/programs.

LOGISTICS MANAGEMENT - NAVAIR MANAGED PROGRAMS

(3.1.4/314000_) - Sustains the design, support, and maintenance of domestic and FMS air combat electronics, support systems (including Air Traffic Control), tactical training ranges, aircraft launch and recovery equipment and aviation life support systems, NAVAIR managed aircraft (including associated propulsion systems), and support equipment. Logistics Director for NAVAIR managed programs for air combat electronics, support systems, NAVAIR managed aircraft, and support equipment. Member of AIR-1.0 staff for logistics matters associated with the above systems/programs and provides non-intrusive Logistics technical oversight for NAVAIR managed programs.

LOGISTICS MANAGEMENT - NAVAIR MANAGED SYSTEMS

(3.1.4.1/314100_) - Sustains the design, support, and maintenance of Air Combat Electronics, Tactical Training Ranges, Air Traffic Control/Landing Systems, Navigational Systems, Air Crew Systems, Aircraft Launch and Recovery Systems, Aviation Life Support Systems, and Support Equipment (command and peculiar). Assistant Program Managers and Business Financial Managers for the aforementioned systems. Provides logistics support for these systems.

LOGISTICS MANAGEMENT - NAVAIR MANAGED AIRCRAFT

(3.1.4.2/314200_) - Sustains the design, support, and maintenance of NAVAIR managed aircraft. Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers, and Business Financial Managers for NAVAIR managed aircraft systems/programs including associated propulsion systems. Provides Logistics support for NAVAIR managed aircraft and ILS business financial support for NAVAIR managed aircraft.

LOGISTICS MANAGEMENT - TRAINING SYSTEMS (3.1.6/316000_) - Sustains the design, support, and maintenance of training systems. Assistant Program Managers for Logistics, Deputy Assistant Program Managers for Logistics, Logistics Managers and Business Financial Managers for training systems.

LOGISTICS MANAGEMENT - CONFIGURATION MANAGEMENT (LOGISTICS)

(3.1.8/318000_) - Provides advisory services and training to IPTs in the logistics aspects of the Configuration Management process for aircraft, weapons, avionics, and support systems (including Change control Board processing, CM Plans, Program Management Reviews, OSIP's, ECPs, kit material, technical directive

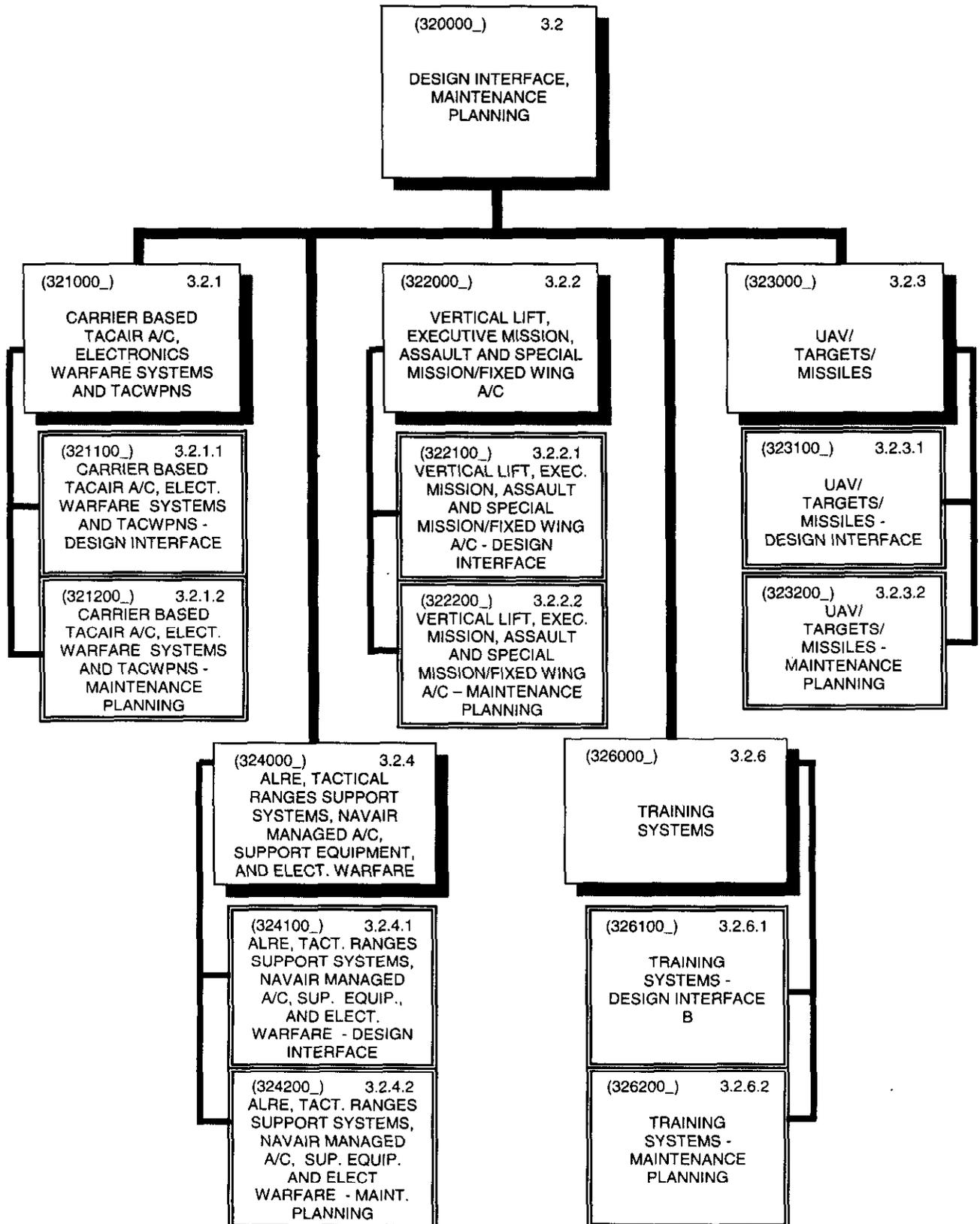
installation funding execution/retrofit installation management) to ensure implementation support for introduction/integration/fielding of each configuration, as well as maintenance of corporate data/records/documents through status accounting.

LOGISTICS MANAGEMENT - CONFIGURATION IDENTIFICATION, AUDIT AND CONTROL (3.1.8.1/318100_) - Provides policy and support to the configuration identification, audit, control, and documentation, aspects of the configuration management process for aircraft, weapons, avionics, and support systems. Trains acquisition personnel in modification implementation and installation budgeting and execution.

LOGISTICS MANAGEMENT - CONFIGURATION STATUS ACCOUNTING (IMPLEMENTATION) (3.1.8.2/318200_) - Provides initialization/update and fleet assistance through the Technical Directive Status Accounting (TDSA) and Configuration Status Accounting (CSA) aspects of the Configuration Management Logistics process for aircraft, weapons, engines, avionics, and support systems. Assists acquisition personnel with writing TDs and TD management and trains fleet personnel in TD compliance and reporting.

LOGISTICS MANAGEMENT - MODIFICATION KIT MANAGEMENT (3.1.8.3/318300_) - Provides modification kit management services including kit assembly, disassembly, standardization, receipt, dedicated storage, issue, quality assurance, milestone tracking, and program visibility for aircraft, weapons, engines, avionics, and support equipment. Provides programs with retrofit assistance and kit management training.

DESIGN INTERFACE, MAINTENANCE PLANNING
3.2/320000_



DESIGN INTERFACE, MAINTENANCE PLANNING (3.2/320000_) - Provides the resources to establish and maintain design interface, perform maintenance planning, and provide engineering technical services from concept exploration through disposal to ensure maintainability, readiness, supportability, and affordability.

CARRIER BASED TACAIR A/C, ELECTRONICS WARFARE SYSTEMS, AND TACWPNS (3.2.1/321000_) - Establishes and maintains the supportability, design interface and maintenance planning requirements for the life of the aircraft (including associated propulsion systems) and weapons to ensure maintenance, readiness, supportability, and affordability objectives are achieved.

CARRIER BASED TACAIR A/C, ELECTRONICS WARFARE SYSTEMS, AND TACWPNS - DESIGN INTERFACE (3.2.1.1/321100_) - Influences system design and subsequent modifications through analysis, assessment, and evaluation of supportability, maintainability, reliability, and affordability objectives to achieve readiness and cost goals.

CARRIER BASED TACAIR A/C, ELECTRONICS WARFARE SYSTEMS, AND TACWPNS - MAINTENANCE PLANNING (3.2.1.2/321200_) - Develops maintenance planning documents for implementation in the operational environment, the analysis of maintenance data, and the development of readiness, supportability, and maintainability continuous improvements.

VERTICAL LIFT, EXECUTIVE MISSION, ASSAULT AND SPECIAL MISSION/FIXED WING A/C (3.2.2/322000_) - Establishes and maintains the supportability, design interface, and maintenance planning requirements for the life of the aircraft (including associated propulsion systems) to ensure maintenance, readiness, supportability, and affordability objectives are achieved from concept formulation through disposal.

VERTICAL LIFT, EXECUTIVE MISSION, ASSAULT AND SPECIAL MISSION/FIXED WING A/C - DESIGN INTERFACE (3.2.2.1/322100_) - Influences system design and subsequent modifications through analysis, assessment, and evaluation of supportability, maintainability, reliability and affordability objectives to achieve readiness and cost goals.

VERTICAL LIFT, EXECUTIVE MISSION, ASSAULT AND SPECIAL MISSION/FIXED WING A/C - MAINTENANCE PLANNING (3.2.2.2/322200_) - Develops maintenance planning documents for implementation in the operational environment, analyzes maintenance data, and develops readiness, supportability, and maintainability continuous improvements.

UAV/TARGETS/MISSILES (3.2.3/323000_) - Establishes and maintains the supportability, design interface, and maintenance planning requirements for the life of the UAV/Target/Missile to ensure maintenance, readiness, supportability, and affordability objectives are achieved.

UAV/TARGETS/MISSILES - DESIGN INTERFACE (3.2.3.1/323100_) - Influences system design and subsequent modifications through analysis, assessment, and evaluation of supportability, maintainability, reliability, and affordability objectives to achieve readiness and cost goals.

UAV/TARGETS/MISSILES - MAINTENANCE PLANNING (3.2.3.2/323200_) - Develops maintenance planning documents for implementation in the operational environment, analyzes maintenance data, and develops readiness, supportability, and maintainability continuous improvements.

ALRE, TACTICAL RANGES SUPPORT SYSTEMS, NAVAIR MANAGED A/C, SUPPORT EQUIPMENT, AND ELECTRONIC WARFARE (3.2.4/324000_) - Establishes and maintains the supportability, design interface, and maintenance planning requirements for the life of the A/C or system (including associated propulsion systems) to ensure maintenance, readiness, supportability, and affordability objectives are achieved.

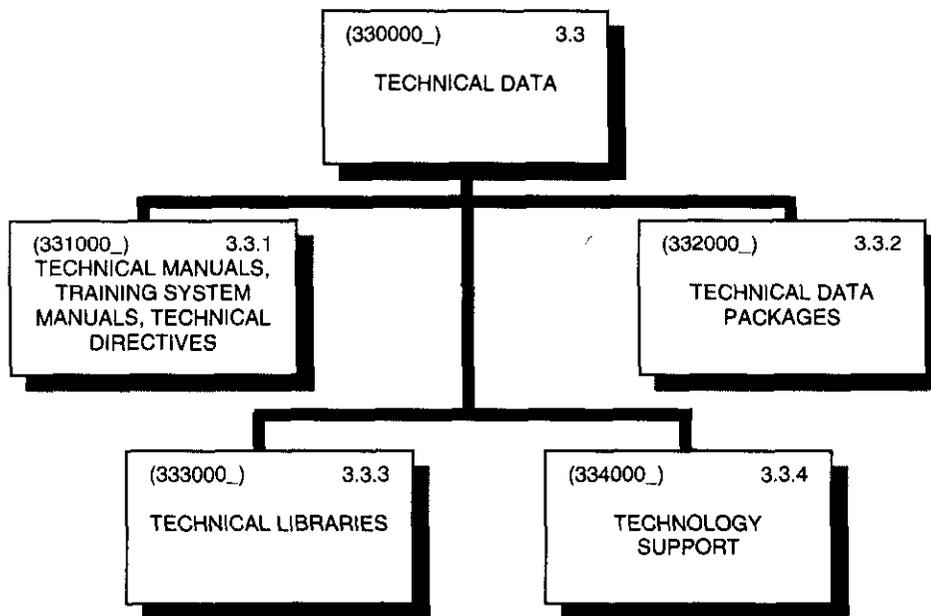
ALRE, TACTICAL RANGES SUPPORT SYSTEMS, NAVAIR MANAGED A/C, SUPPORT EQUIPMENT, AND ELECTRONIC WARFARE - DESIGN INTERFACE (3.2.4.1/324100_) - Influences system design and subsequent modifications through analysis, assessment, and evaluation of supportability, maintainability, reliability and affordability objectives to achieve readiness and cost goals.

ALRE, TACTICAL RANGES SUPPORT SYSTEMS, NAVAIR MANAGED A/C, SUPPORT EQUIPMENT, AND ELECTRONIC WARFARE - MAINTENANCE PLANNING (3.2.4.2/324200_) - Develops maintenance planning documents for implementation in the operational environment, analyzes maintenance data, and develops readiness, supportability, and maintainability continuous improvements.

TRAINING SYSTEMS (3.2.6/326000_) - Establishes and maintains the supportability, design interface, and maintenance planning requirements for the life of the training system to ensure maintenance, readiness, supportability, and affordability objectives are achieved.

TRAINING SYSTEMS - DESIGN INTERFACE B (3.2.6.1/326100_) -
Influences system design and subsequent modifications through analysis, assessment, and evaluation of supportability, maintainability, reliability, and affordability objectives to achieve readiness and cost goals.

TRAINING SYSTEMS - MAINTENANCE PLANNING (3.2.6.2/326200_) -
Develops maintenance planning documents for implementation in the operational environment, analyzes maintenance data, and develops readiness, supportability, and maintainability continuous improvements.

**TECHNICAL DATA
3.3/330000_**

TECHNICAL DATA (3.3/330000_) - Provides the resources to access, acquire, produce, store, distribute, and maintain technical data (technical manuals, training system manuals, technical directives and technical data packages) for aircraft, weapons, targets, UAVs, common avionics, training systems, and support systems. The content of technical data elements may be provided by other competencies and configuration management as it applies to technical data will be integrated into our processes.

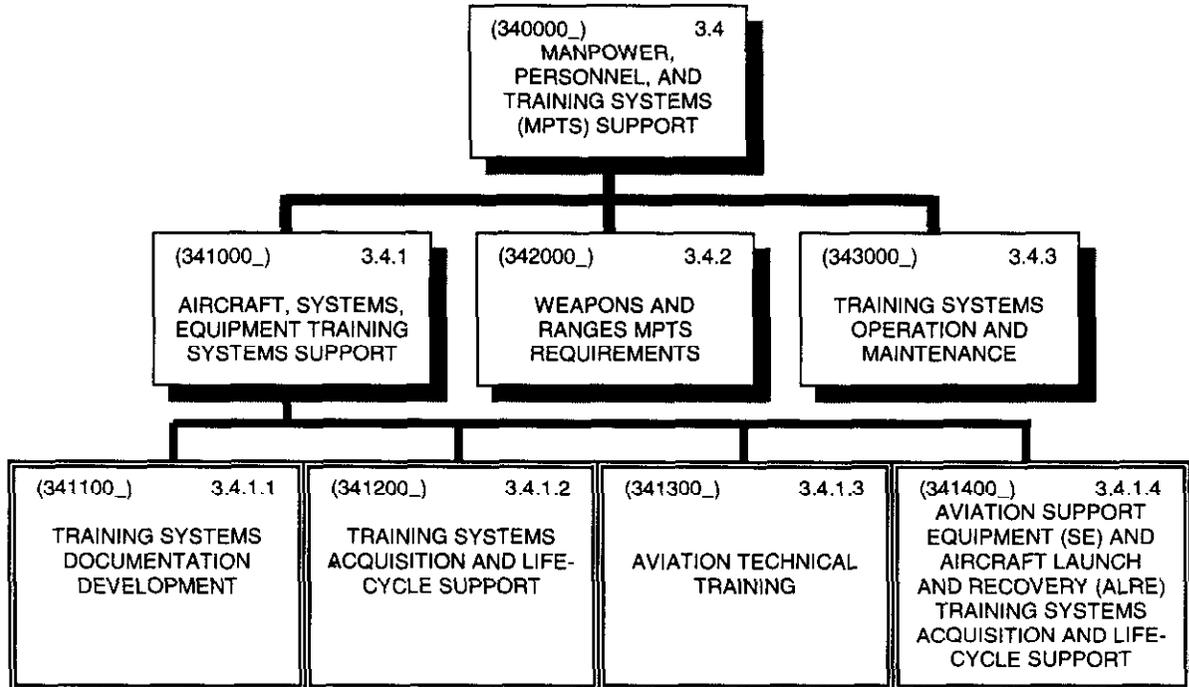
TECHNICAL MANUALS, TRAINING SYSTEM MANUALS, TECHNICAL DIRECTIVES (3.3.1/331000_) - Provides the resources to plan for, acquire, produce, and maintain technical manuals, training system manuals, technical directives for aircraft, weapons, targets, UAVs, common avionics, training systems, and support systems.

TECHNICAL DATA PACKAGES (3.3.2/332000_) - Provides the resources to plan for, acquire, produce, and maintain technical data packages for aircraft, weapons, targets, UAVs, common avionics, training systems, and support systems.

TECHNICAL LIBRARIES (3.3.3/333000_) - Provides the resources required to store, maintain, archive, and distribute technical data packages and publications.

TECHNOLOGY SUPPORT (3.3.4/334000_) - Provides the resources to coordinate, develop, and train the Technical Data workforce of the future in technological advancement of Integrated Electronic Technical Data and associated technical data management systems.

**MANPOWER, PERSONNEL, AND TRAINING SYSTEMS (MPTS)
SUPPORT
3.4/340000_**



MANPOWER, PERSONNEL, AND TRAINING SYSTEMS (MPTS) SUPPORT (3.4/340000_) - Provides the resources to plan and integrate the fleet manpower, personnel, and training system support requirements during system acquisition; and to provide operation and maintenance support for all weapon system specific and general training systems. Provides aviation aircrew and maintenance technical training concurrent with initial fleet operational capabilities. For the purpose of this plan, a training system is defined as a systematically developed curriculum including, but not necessarily limited to, courseware; classroom aids; training, training simulators and devices; operational equipment; embedded training capability; and personnel to operate, maintain, or employ a system.

AIRCRAFT, SYSTEMS, EQUIPMENT TRAINING SYSTEMS SUPPORT (3.4.1/341000_) - For aircraft, systems, and equipment: to plan, develop, and integrate manpower, personnel, and training requirements and constraints into product designs; and to support the analysis, documentation, planning, development, acquisition, and fielding of training systems by providing the following:

- Manpower, Personnel, Training Concept and Resource Requirements Document development.
- Navy Training Plan development.
- Preliminary Activity Manpower Document development.
- Manpower Estimate Report development.

- Analysis of training equipment and training systems logistics support requirements.
- Curriculum development.
- Fleet introduction training.
- Procurement of Government Furnished Equipment for initial outfitting of Naval Aviation Maintenance Trainers.
- Training and Training Equipment Plans (TTEP).

TRAINING SYSTEMS DOCUMENTATION DEVELOPMENT (3.4.1.1/341100_) - For aircraft, systems, and equipment, provides the necessary Manpower, Personnel, and Training (MP&T) documentation to support the acquisition and life-cycle logistics support processes including, but not limited to, the requirements list below:

- Develops Manpower, Personnel, Training Concept, and Resource Requirements Documents.
- Develops Navy Training Systems Plan.
- Prepares Preliminary Activity Manpower Document development.
- Prepares Manpower Estimate Report.
- Conducts analysis of training equipment and training systems logistics support requirements.

TRAINING SYSTEMS ACQUISITION AND LIFE-CYCLE SUPPORT (3.4.1.2/341200_) - Provides training system acquisition and life-cycle support of aircraft, systems. Supports weapon systems acquisition processes as an IPT member representing training systems integration during the acquisition process. Provides training system program management and support of common Avionics training systems. Procures Equipment Shortage List/Equipment Requirements List (ESL/ERL) requirements as directed and funded by higher authorities. Provide curriculum Control Authority and management assistance of Depot Level Fleet Skills training courses conducted by NADEPS or other assigned activities.

- Provides training system acquisition and life-cycle training logistic support of assigned weapon systems.
- Conducts training system acquisition and life-cycle management of assigned common avionics systems.
- Procures Government Furnished Equipment (GFE) for initial outfitting of Naval Aviation Maintenance Trainers.
- Procures Equipment Shortage List/Equipment Requirements List (ESL/ERL) items as directed to support maintenance trainers.
- Provides curriculum control authority and management assistance for depot level fleet training courses.

AVIATION TECHNICAL TRAINING (3.4.1.3/341300_) - Provides aviation aircrew and maintenance technical training, concurrent with fleet initial operational capability. Maintains close liaison with fleet technical competencies during aircraft test and development to ensure technically accurate, modern training is delivered to the fleet at affordable costs. This shall include, but not be limited to the following:

- Provides full aircrew and maintenance technical training support for all aircraft in the Naval inventory as well as DoD and Non-DoD assets encompassing: conceptual planning, design, development, refinement, presentation, and logistics engineering.
- Provides full aircrew and maintenance technical training in support of foreign military cases during the transition and/or follow-on phases of the training evolution.
- Performs program management functions, including technical, procurement and financial requirements, in execution of the aviation technical training tasking.

AVIATION SUPPORT EQUIPMENT (SE) AND AIRCRAFT LAUNCH AND RECOVERY (ALRE) TRAINING SYSTEMS ACQUISITION AND LIFE-CYCLE SUPPORT (3.4.1.4/341400_) - Provides training system acquisition and life-cycle support for aviation SE and ALRE systems. Supports aviation SE/ALRE systems acquisition processes as an IPT member representing training systems integration during the acquisition process. Provides aviation SE/ALRE operator and maintenance training concurrent with fleet operational capability. Maintains close liaison with fleet technical competencies during SE/ALRE development, and test and evaluation to ensure technically accurate, modern SE/ALRE training systems are procured and delivered to the fleet at affordable cost.

- Provides full operator and maintenance technical training support for all SE/ALRE in the Naval inventory as well as DoD and Non-DoD assets encompassing: conceptual planning, design, development, refinement, presentation, and logistics engineering.
- Performs SE/ALRE acquisition and life cycle support program management functions, including technical, procurement and financial requirements, in execution of the aviation SE/ALRE technical training tasking.

WEAPONS AND RANGES MPTS REQUIREMENTS (3.4.2/342000_) - For weapons and ranges: plans, develops, and integrates manpower, personnel, and training requirements and constraints into product designs; and supports the analysis, documentation, planning, development, acquisition, and fielding of training systems by providing the following:

- Manpower, Personnel, Training Concept and Resource Requirements Document development.

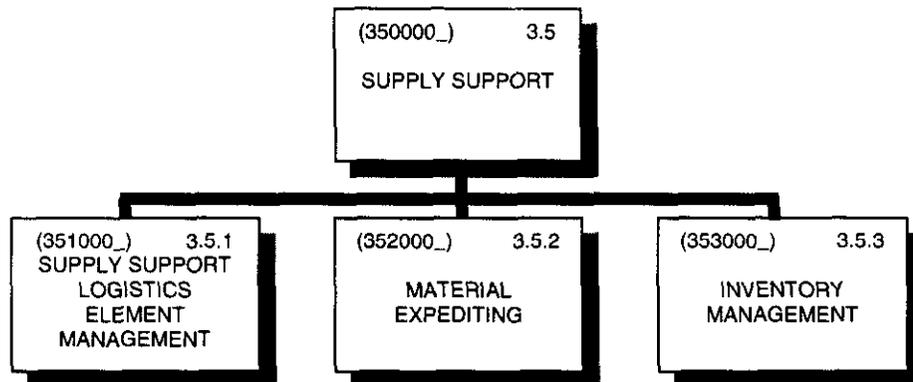
- Navy Training Plan development.
- Preliminary Activity Manpower Document development.
- Manpower Estimate Report development.
- Analysis of training equipment and training sys logistics support requirements.
- Curriculum development.
- Fleet introduction training.
- Procurement of Government Furnished Equipment for initial outfitting of Naval Aviation Maintenance Trainers.
- Training and Training Equipment Plans (TTEP).

TRAINING SYSTEMS OPERATION AND MAINTENANCE (3.4.3/343000_) - Plans, develops, and executes the Navy's Contractor Operation and Maintenance of Simulators (COMS)/Contractor Simulator Instruction (CSI) Program for training devices and systems. Functions include:

- Performs the COMS/CSI acquisition function including the preparation of statements of work and contractual documents.
- Develops and maintains training devices and systems COMS/CSI funding requirements and database.
- Performs as the Logistics Element Manager during program acquisition phases for new training devices and systems that will transition to COMS during the operational phase.
- Acts as the primary interface with sponsors/activities in all matters pertaining to the planning, programming, implementation, and performance of COMS/CSI for training devices and systems.

Administers the Navy's Command Aircraft Crew Training (CACT) program. Functions include preparation of statements of work and contractual documents, monitoring quarterly training requirements, and providing the COR function for all CACT contracts.

SUPPLY SUPPORT 3.5/350000_



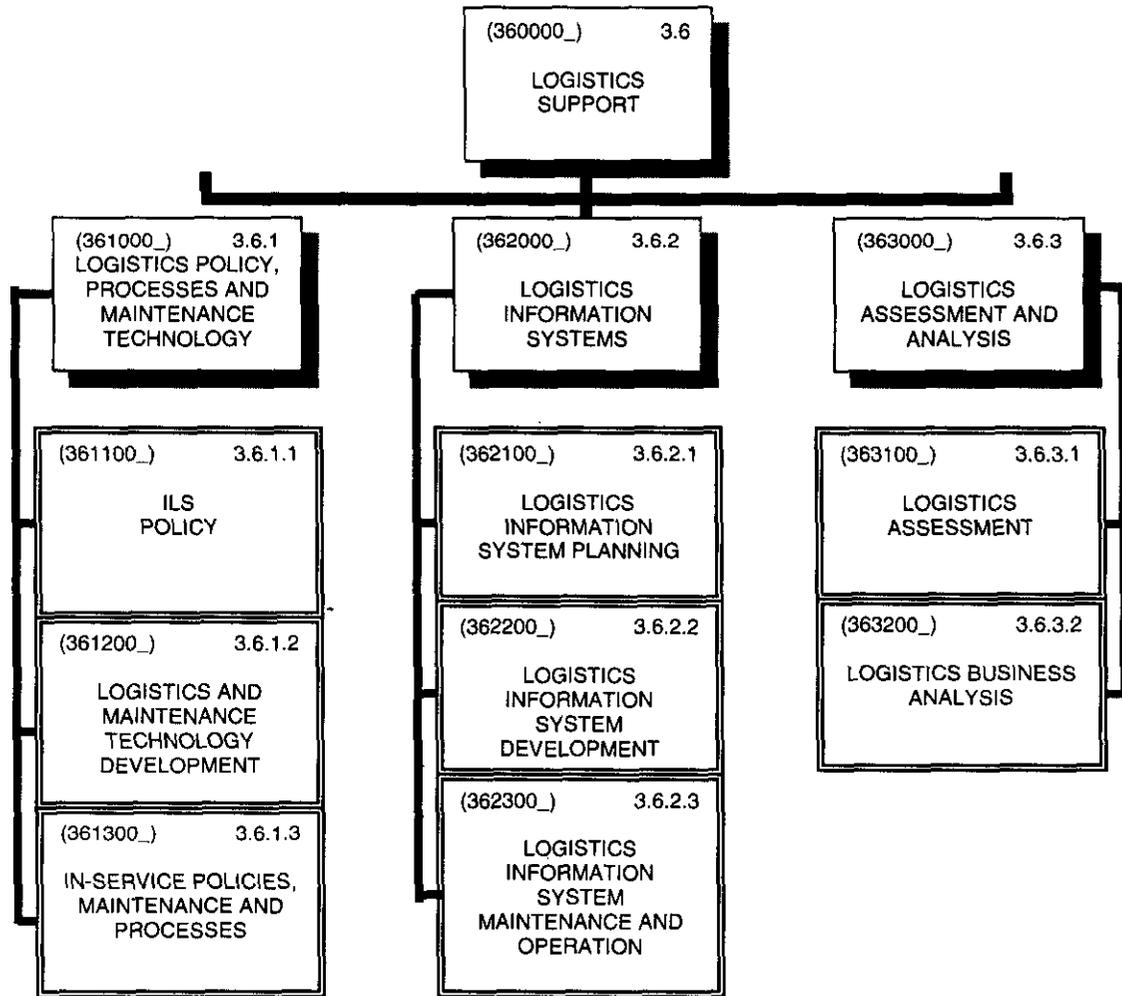
SUPPLY SUPPORT (3.5/350000_) - The Naval Inventory Control Point (NAVICP-P) in Philadelphia functions in the capacity of a TEAM organizational element relative to level 2 Supply Support leadership. Therefore, NAVICP-P manages all TEAM Supply Support resources consistent with Logistics policy. In addition to Level 2 leadership for TEAM resources, NAVICP-P will continue to provide NAVICP-P resources for supply support (including LEM functions) as required by the TEAM. Provides all actions, procedures, and techniques used to determine initial and system requirements to budget, acquire, catalogue, receive, store, transfer, issue, and dispose of selected primary and secondary items. This includes performing Packaging, Handling, Storage, and Transportation (PHS&T) and material repair/expediting functions.

SUPPLY SUPPORT LOGISTICS ELEMENT MANAGEMENT (3.5.1/351000_) - Provides all actions, procedures, and techniques necessary to perform supply support LEM functions at NAST activities. These include, but are not limited to: requirements determination for repair and spare parts to support weapons systems and equipment/support equipment; budgeting for repair and spare parts funding; spares source determination and procurement; provisioning support and asset distribution.

MATERIAL EXPEDITING (3.5.2/352000_) - Performs material repair/expediting functions relative to source identification (including cannibalization), ordering repair/replacement items, preparing for shipment and tracking of high priority requirements. Troubleshoots the material/maintenance process, resolve problems, provide feedback to Program Manager (PM)/Logistics Manager (LM)/ASO Logistics Element Manager (LEM). Provides supply technical information to the PM/LM/LEM.

INVENTORY MANAGEMENT (3.5.3/353000_) - Provides all actions, procedures, and techniques to perform the Inventory Management related functions for assigned weapon systems, equipment, and end items to be supported. These include, but are not limited to: requirements determination; asset distribution; dues management; stock reordering; receipt control; material obligation validation; inventory accuracy; and issue processing. This does not apply to Inventory Management functions relative to the industrial complex nor aircraft management responsibilities for airframes as an end item.

**LOGISTICS SUPPORT
3.6/360000_**



LOGISTICS SUPPORT (3.6/360000_) - Provides the resources to support IPTs, EDTs, PSTs, ETs, and other customers in the delivery of all ILS elements by providing necessary policies, processes, tools, information systems, and program and business assessments.

LOGISTICS POLICY, PROCESSES AND MAINTENANCE TECHNOLOGY (3.6.1/361000_) - Establishes and maintains logistics policies and procedures. Provides the unique skills to interpret external logistics initiatives for application across the TEAM. This includes acting as the principle point of contact on various ILS Navy/Joint QMB's working groups, etc. As well as, consolidating logistics R&D efforts.

ILS POLICY (3.6.1.1/361100_) - Establishes and maintains logistics specifications and standards. Develops logistics strategic plans and data standardization. Provides logistics policy training.

LOGISTICS AND MAINTENANCE TECHNOLOGY DEVELOPMENT (3.6.1.2/361200_) - Identifies and integrates technology that improves the operation and cost effectiveness of Naval Aviation Logistics support system; provides direct logistics technology support to Naval Aviation Science and Technology Office (NAVSTO) for TEAM technology programs; plans and manages the Lead Maintenance Technology Center (LMTC) for common maintenance and repair technologies related technical documentation; provides general environmental maintenance process and technology improvements.

IN-SERVICE POLICIES, MAINTENANCE AND PROCESSES (3.6.1.3/361300_) - Maintains and interprets established policies and procedures governing the Naval Aviation Maintenance Program; ensures proper maintenance, updates and distributes OPNAVINST 4790.2. Provides on-site assistance to Research, Development, Test and Evaluation operations, Naval Aviation Depots, and designated contractor operated sites with Naval Aviation Maintenance policies and procedures.

LOGISTICS INFORMATION SYSTEMS (3.6.2/362000_) - Plans, develops, maintains, and operates logistics information systems. Provides training necessary to employ logistics information systems.

LOGISTICS INFORMATION SYSTEM PLANNING (3.6.2.1/362100_) - Develops logistics information system strategic plans and requirements. Budgets and executes logistics information system resources to support the logistics information system strategic plans. Maintains logistics information system documentation. Provides data administration systems architecture, QA/configuration control, and benefits tracking for logistics information systems.

LOGISTICS INFORMATION SYSTEM DEVELOPMENT (3.6.2.2/362200_) - Develops and tests logistics information systems and ensures technical integration. Manages legacy system transition to an integrated "open systems" common operating environment.

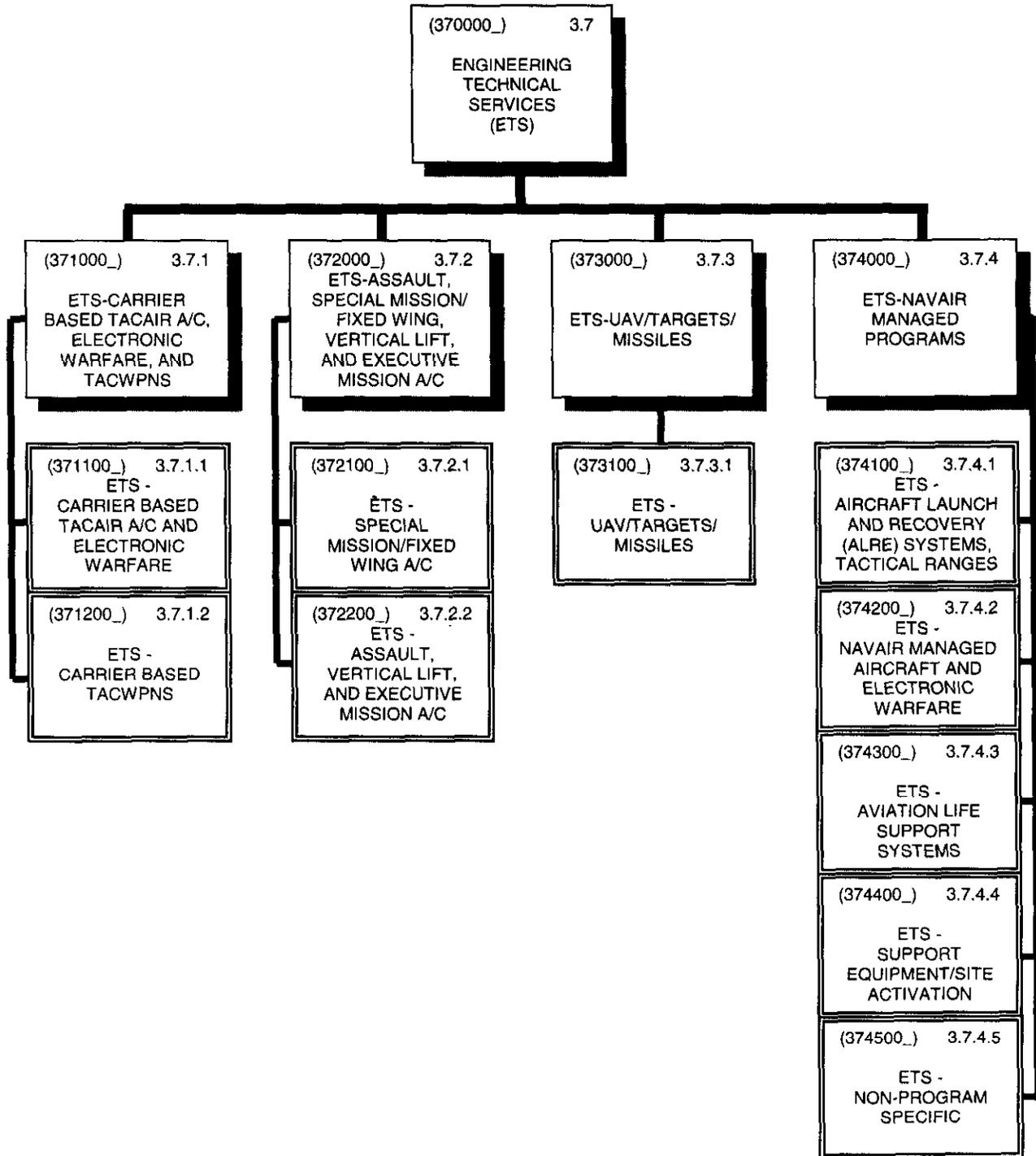
LOGISTICS INFORMATION SYSTEM MAINTENANCE AND OPERATION (3.6.2.3/362300_) - Manages logistics information system productions and operations. Provides logistics information system customer services and training. Provides network database systems administration and security services for logistics information systems.

LOGISTICS ASSESSMENT AND ANALYSIS (3.6.3/363000_) - Provides independent logistics assessment and conducts business analysis for Logistics.

LOGISTICS ASSESSMENT (3.6.3.1/3631/00_) - Plans, manages, accomplishes, and monitors through independent logistics assessments of the team programs through the ILA process.

LOGISTICS BUSINESS ANALYSIS (3.6.3.2/363200_) - Plans, conducts, and analyzes business practices utilized in support of Logistics.

**ENGINEERING TECHNICAL SERVICES
3.7/370000_**



ENGINEERING TECHNICAL SERVICES (ETS) (3.7/370000_) - Provides the resources to plan, acquire, manage, and provide domestic and Foreign Military Sales (FMS) Engineering Technical Services for all aviation related weapon systems, targets and associated equipment. These services include technical information and advice; assistance in resolving complex system and equipment problems; and training (on the job and classroom) in conjunction with the installation, operation, maintenance, modification, and repair of applicable systems, targets, and equipment.

ETS - CARRIER BASED TACAIR A/C, ELECTRONIC WARFARE, AND TACWPNS (3.7.1/371000_) - Plans, acquires, manages, administers, and provides Engineering Technical Services for carrier based tactical aircraft, applicable propulsion systems, tactical weapons, and electronic warfare systems.

ETS - CARRIER BASED TACAIR A/C AND ELECTRONIC WARFARE (3.7.1.1/371100_) - Performs Engineering Technical Services, both ashore and afloat, for tactical aircraft, applicable propulsion systems and associated electronic warfare systems. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to IPT.

ETS - CARRIER BASED TACWPNS (3.7.1.2/371200_) - Performs Engineering Technical Services, both ashore and afloat, for tactical weapon systems. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - ASSAULT, SPECIAL MISSION/FIXED WING, VERTICAL LIFT, AND EXECUTIVE MISSION A/C (3.7.2/372000_) - Plans, acquires, manages, administers, and provides Engineering Technical Services for Assault, Special Mission, Vertical Lift, and Executive Mission aircraft, and applicable propulsion systems.

ETS - SPECIAL MISSION/FIXED WING A/C (3.7.2.1/372100_) - Performs Engineering Technical Services, both ashore and afloat, for Special Mission/Fixed Wing aircraft, and applicable propulsion systems. Perform emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - ASSAULT, VERTICAL LIFT, AND EXECUTIVE MISSION A/C (3.7.2.2/372200_) - Performs engineering technical services, both ashore and afloat, for Assault, Vertical Lift, and Executive Mission A/C and

associated propulsion systems. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - UAV/TARGETS/MISSILES (3.7.3/373000_) - Plans, acquires, manages, administers, and provides Engineering Technical Services for UAV, targets, and cruise missiles.

ETS - UAV/TARGETS/MISSILES (3.7.3.1/373100_) - Performs Engineering Technical Services, both ashore and afloat, for UAV, targets, and cruise missiles. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - NAVAIR MANAGED PROGRAMS (3.7.4/374000_) - Plans, acquires, manages, administers, and provides Engineering Technical Services for NAVAIR managed programs/systems, applicable propulsion systems, support equipment, and electronic warfare systems.

ETS - AIRCRAFT LAUNCH AND RECOVERY (ALRE) SYSTEMS, TACTICAL RANGES (3.7.4.1/374100_) - Performs Engineering Technical Services, both ashore and afloat, for ALRE Systems, tactical ranges, and support systems (including Air Traffic Control). Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - NAVAIR MANAGED AIRCRAFT AND ELECTRONIC WARFARE (3.7.4.2/374200_) - Performs Engineering Technical Services, both ashore and afloat, for NAVAIR managed aircraft, applicable propulsion systems, and electronic warfare systems. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

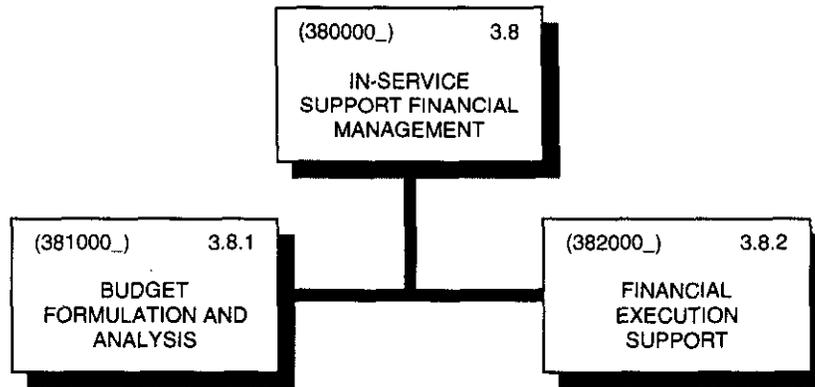
ETS - AVIATION LIFE SUPPORT SYSTEMS (3.7.4.3/374300_) - Performs Engineering Technical Services, both ashore and afloat, for AIRCREW equipment/systems. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - SUPPORT EQUIPMENT/SITE ACTIVATION (3.7.4.4/374400_) - Performs Engineering Technical Services, both ashore and afloat, for peculiar and common support equipment for aircraft, weapons, and avionics systems. Provides site activation support, when applicable.

Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to the IPT.

ETS - NON-PROGRAM SPECIFIC (3.7.4.5/374500_) - Performs Engineering Technical Services, both ashore and afloat, in non-program specific areas such as corrosion prevention/control and non-destructive inspection. Performs emergency on-site repair assistance. Provides technical reports detailing system/equipment deficiencies and proposed solutions. Provides user feedback to appropriate organizations.

**IN-SERVICE SUPPORT FINANCIAL MANAGEMENT
3.8/380000_**

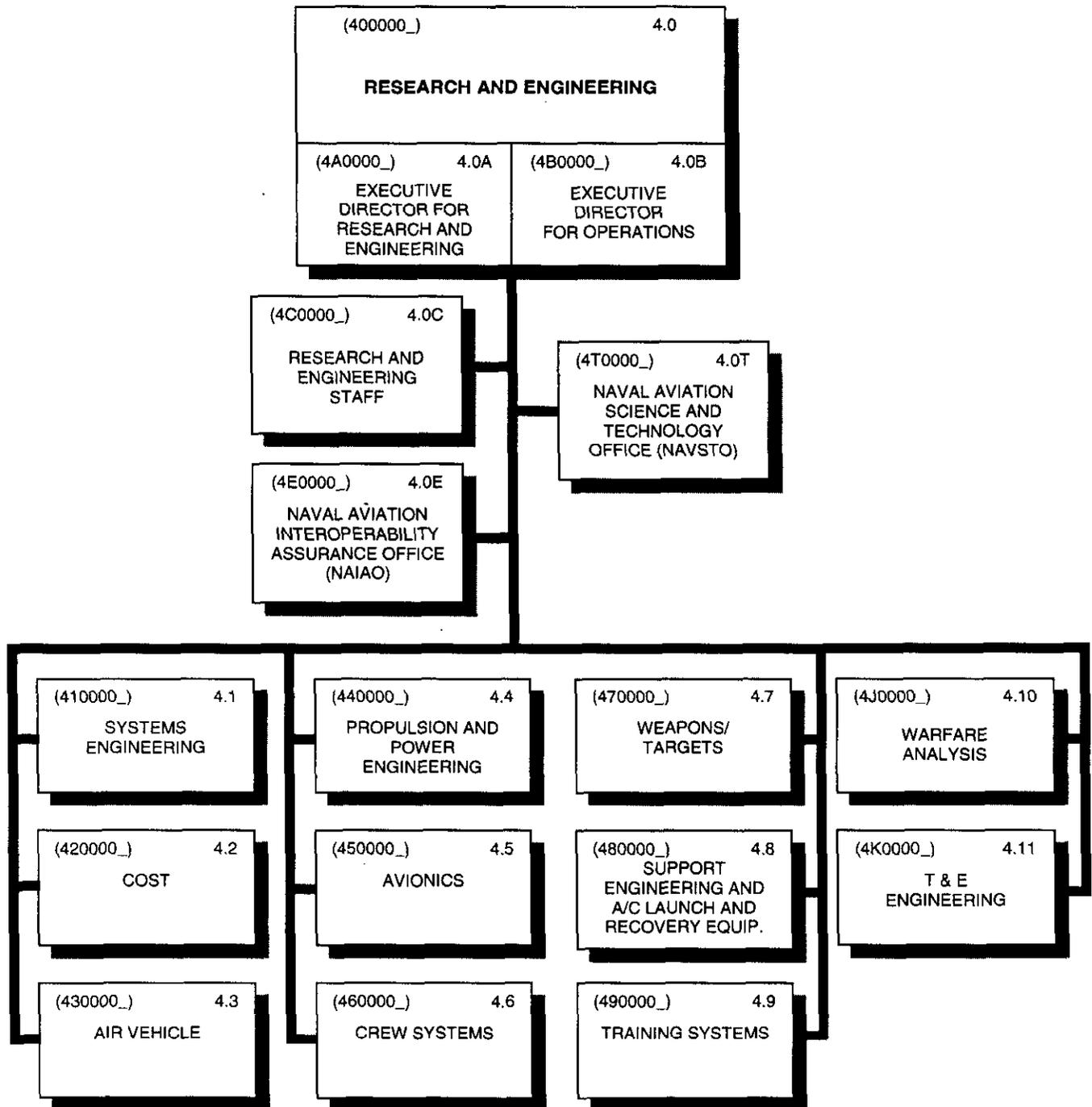


IN-SERVICE SUPPORT FINANCIAL MANAGEMENT (3.8/380000_) - Provides the resources to support IPTs, EDTs, ETs, PSTs, and other customers in the delivery of all in-service financial management by providing necessary processes, policies, tools, program assessments, and financial analyses. In-service financial management provides a single point focus on O&MN management across the TEAM, as well as performing the Requiring Financial Management (RFM) function for all specific O&MN and APN project units.

BUDGET FORMULATION AND ANALYSIS (3.8.1/381000_) - Prepares budgets for submission with inputs from IPTs, EDTs, ETs, and PSTs. Compiles and provides answers/reclamas during the entire budget process. Performs RFM functions for assigned APN and O&MN project units.

FINANCIAL EXECUTION SUPPORT (3.8.2/382000_) - Develops, operates, and maintains the logistics account execution process. Monitors obligation rates for assigned APN and O&MN project units. Chairs O&MN Mini-Board and facilitates O&MN Big Board.

**RESEARCH AND ENGINEERING
4.0/400000_**



RESEARCH AND ENGINEERING (4.0/400000_) - The Research and Engineering Competency provides the resources for the maritime engineering needs of science and technology development, systems acquisition, and product support of all Naval aviation aircraft, weapons, and support systems. Support is provided to Integrated Program

Teams (IPTs), Externally Directed Teams (EDTs), and Enterprise Teams (ETs) in the areas of: Naval Aviation Science and Technology; Systems Engineering; Cost; Air Vehicles; Propulsion and Power Systems; Avionics; Crew Systems; Weapons and Subscale Targets; Support Equipment and Aircraft Launch and Recovery Equipment; Training Systems; Concept Analysis, Evaluation and Planning; and Test and Evaluation Engineering.

EXECUTIVE DIRECTOR FOR RESEARCH AND ENGINEERING (4.0A/4A0000_)

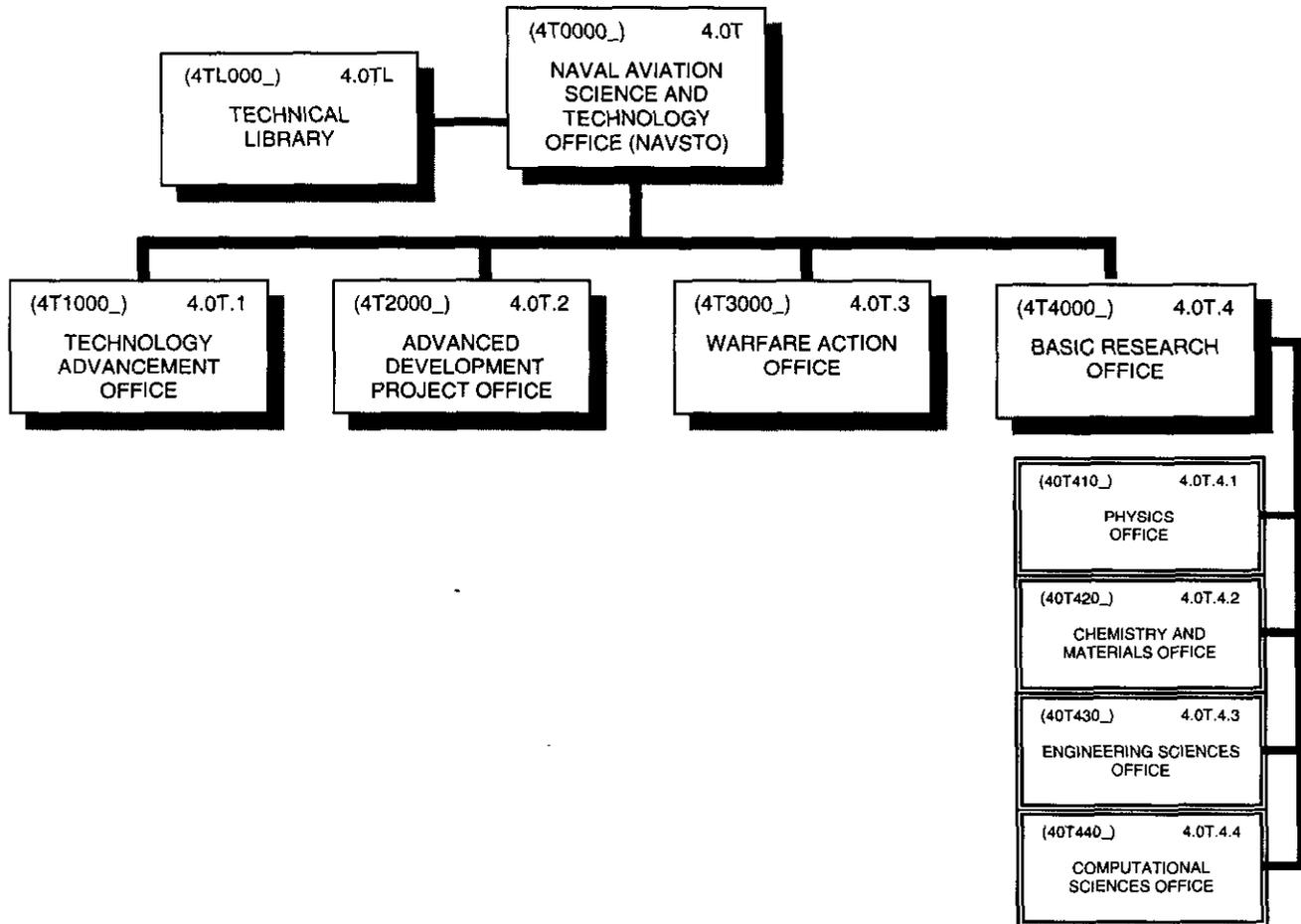
EXECUTIVE DIRECTOR FOR OPERATIONS (4.0B/4B0000_)

RESEARCH AND ENGINEERING STAFF (4.0C/4C0000_) - The support staff provides business/financial planning and management, manpower resource management and allocation and general administrative support for the Research and Engineering Competency. This includes:

- Coordinating and administering all financial planning and budgeting activities.
- Interpreting programming and budgeting guidance and constraints established by higher authority and recommending objectives and programming actions.
- Providing guidance for position management and classification issues, organizational design, recruitment, manpower resource analysis, performance evaluations, award justifications, and employee development.
- Providing administrative support services including, facilities management, space management, guidance on timekeeping procedures, travel administration, implementing security policies and procedures, etc.
- Conducting feasibility studies and determining the need for management information systems.

NAVAL AVIATION INTEROPERABILITY ASSURANCE OFFICE (NAIAO) (4.0E/4E0000_) - Responsible for coordinating and integrating the related activities of the Naval Air Systems TEAM in the pursuit of effective, interoperable, and affordable battlespace network systems. This office is the NAVAIR point of contact and primary interface with OPNAV, NAVSEA, SPAWAR and other Command and Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance, and Targeting (C4ISR&T) and T&E organization. The NAIAO is responsible for ensuring that all reasonable alternatives to meet naval aviation battlespace network needs are evaluated, and that Science and Technology (S&T) and acquisition investments are complementary and properly focused as a cornerstone of a TEAM strategy.

**NAVAL AVIATION SCIENCE AND TECHNOLOGY OFFICE (NAVSTO)
4.0T/4T0000_**



NAVAL AVIATION SCIENCE AND TECHNOLOGY OFFICE (NAVSTO) (4.0T/4T0000_) - Central program coordinator for the TEAM's Science and Technology (S&T) Program. NAVSTO provides direction, oversight, and focus for all S&T activities within the TEAM as well as serving as the spokesman for all external organizations. NAVSTO orchestrates the operations of PLTs (PLT) to effect policies, guidance, and administration of the S&T Program and oversees the execution of S&T projects through the use of TEAM competency resources. The five PLTs (Aircraft Systems; Weapons; Avionics & Sensors; Training, Simulation and Modeling; and Integrated Support Systems) are the principal TEAM components for planning, executing, integrating and transitioning advanced technologies. In essence, the PLTs are the "IPTs" for the TEAM S&T Program.

TECHNICAL LIBRARY (4.0TL/4TL0000_) - The Technical Library activities at NAWCWD will be consolidated under NAVSTO. The Technical Library is an important tool for Scientists and Engineers (S&E) working on S&T within the TEAM. As overhead budgets are reduced, greater pressure is exerted on Technical Libraries to reduce costs

of operation. With improved computer and Internet technologies, the possibility of replacing NAWCWD and NAWCAD Technical Libraries with a virtual Technical Library available through desktop computers becomes a potentially viable avenue for reducing operational costs without negating their value as a research resource.

TECHNOLOGY ADVANCEMENT OFFICE (4.0T.1/4T1000_) - Coordinates the planning and selection processes for the TEAM 6.1 through 6.3 programs, for the Advanced Technology Demonstration (ATD) submission to the Chief of Naval Research (CNR), and for the Small Business Innovation Research (SBIR) and the MANTECH programs. This office also manages the SBIR and MANTECH programs and provides TEAM S&T financial oversight, including budget tracking, proposal evaluation, program reviews; and technology needs documentation. It also coordinates TEAM involvement in all programs related to technology transfer, Industry IR&D, the Navy Science Advisory Program (NSAP), and the Scientist-to-Sea Program.

ADVANCED DEVELOPMENT PROJECT OFFICE (ADPO) (4.0T.2/4T2000_) - Provides leadership in formulating advanced systems concepts, defining technology application, and developing integration and acquisition goals for future platforms and weapon systems to meet projected naval aviation warfare needs prior to establishing an acquisition program and dedicated program management office. Each ADPO is staffed with a warfare area action officer who leads the activities of team members from the engineering and/or other competencies to achieve objectives. The ADPO is responsible for providing management of designated, major advanced technology projects that require concurrent involvement of multiple TEAM elements.

WARFARE ACTION OFFICE (4.0T.3/4T3000_) - Staffed with senior military officers who are responsible for the coordination of planning of S&T programs to satisfy needs identified by Aviation Program Executive Officers (PEOs) or by the Director for Air Warfare (N88). Each officer is generally the Chair of a technology planning group which addresses a specific warfare area (e.g., Technology Planning Group for Strike (TPG(STK))). The officer may also be double-hatted as Director for an ADPO relevant to his/her warfare area.

BASIC RESEARCH OFFICE (4.0T.4/4T4000_) - Conducts a rigorous, cohesive Basic Research program, which provides the "critical mass" for continuing this function across the TEAM. This Office is responsible for providing Basic Research at a high level in the TEAM, thus providing a visible point for interaction with ONR and other external organizations. It promotes the transition of Basic Research within PLTs to ensure that the TEAM's research is coupled to its mission. The Office advocates mechanisms for the teaming of scientists and engineers in second level competencies with personnel in the Basic Research Office for the joint planning and performance of basic research projects. The major elements of the Basic Research Office are described below.

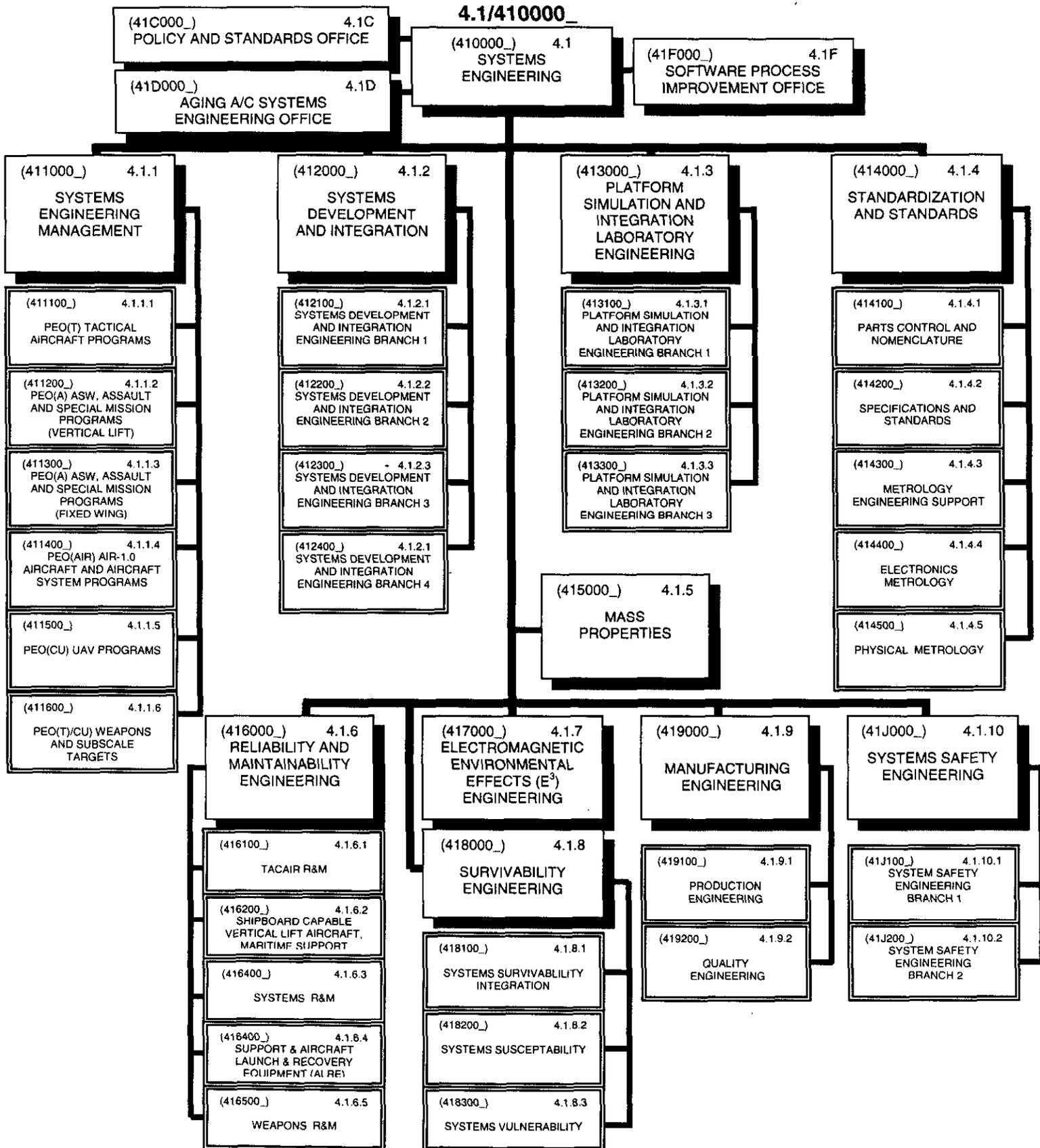
PHYSICS OFFICE (4.0T.4.1/40T410_) – Conducts basic and applied research, provides consulting and technical support to on-station and off-station programs, and manages research and technology development programs in areas of unique expertise including electronic devices, optical materials (bulk and thin-film), optical design, component fabrication, metrology methodology, microwave and millimeter wave materials and devices, lasers and laser effects, and the generation, propagation, scattering, and detection of electromagnetic radiation.

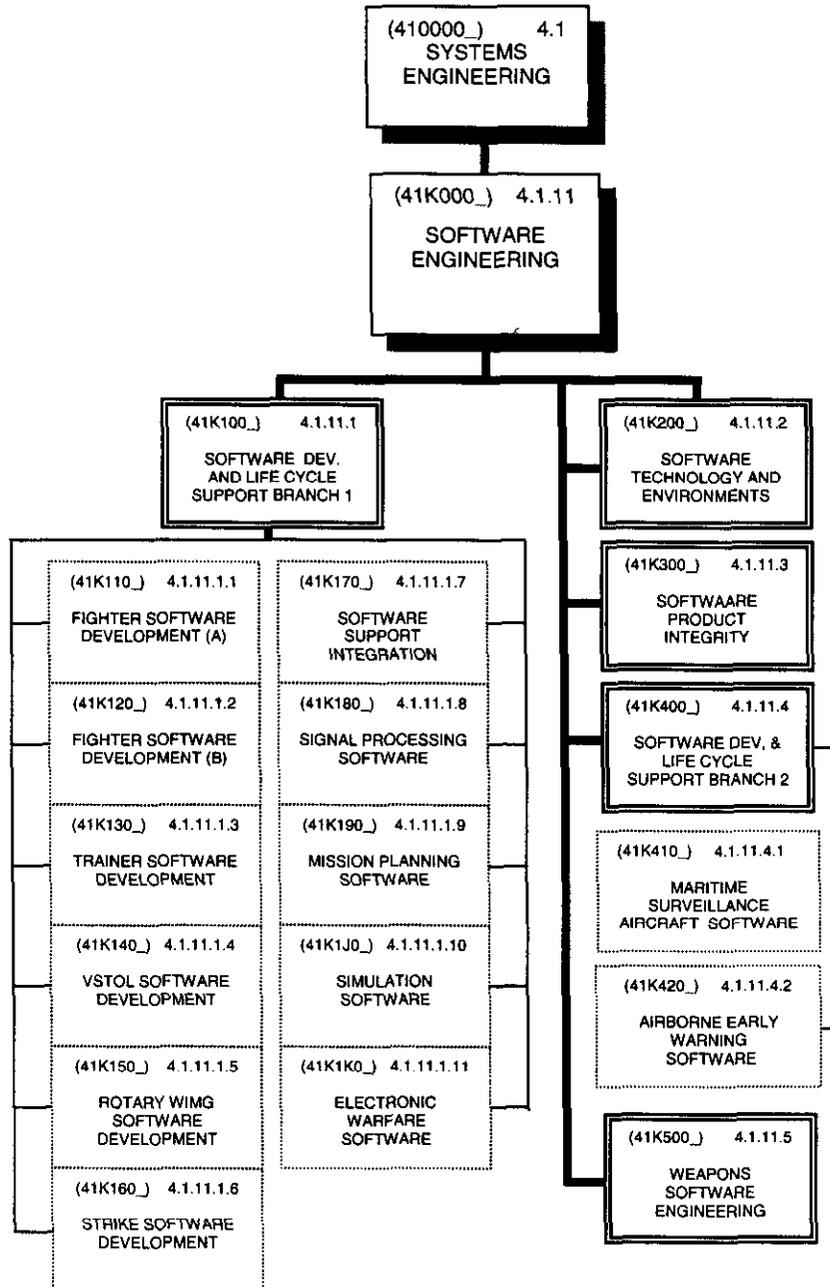
CHEMISTRY AND MATERIALS OFFICE (4.0T.4.2/40T420_) - Conducts basic and applied research in the design and synthesis of new energetic, optical, electronic, and structural materials, and characterization of materials and environmental samples.

ENGINEERING SCIENCES OFFICE (4.0T.4.3/40T430_) -Conducts basic and applied research studies in the general areas of combustion/detonation of energetic materials, missile propulsion, plume signature explosives ordnance, warheads, terminal effects, and advance performance ceramics. Synthesizes and characterizes new lightweight, temperature resistant, advanced performance ceramics.

COMPUTATIONAL SCIENCES OFFICE (4.0T.4.4/40T440_) - Performs basic and applied research in the areas of image and signal processing, algorithm development, advanced analysis techniques, high performance computing, electromagnetics, artificial intelligence, and modeling and simulation.

SYSTEMS ENGINEERING





SYSTEMS ENGINEERING (4.1/410000_) - Provides resources needed by IPTs, EDTs, PSTs, and ETs to iteratively convert mission needs into technical requirements, conduct functional analyses, evaluate alternatives in the context of Naval Aviation’s unique operating environment, allocate solutions to aircraft, aircraft interfaces, weapons systems, battle force interoperability and mission software subsystems, and monitor and coordinate progress across the subsystems to optimize the total system solution. Responsible for the application of scientific and engineering efforts across a broad spectrum of scientific and engineering disciplines to achieve an integrated, balanced total engineering effort

that meets cost, schedule, and performance objectives in Naval Aviation's unique operating environment over the entire life cycle. This support is applied to hardware and software associated with all naval aviation systems from technology development through disposal.

POLICY AND STANDARDS OFFICE (4.1C/41C000_) - Manages systems engineering policies, processes, training, and business planning/development activities. Serves as the Command Standards Executive (CSE) relating to specifications and standards. Represents Research and Engineering regarding Acquisition Reform. Serves as the policy focal point for Human Systems Integration. Represents and/or supports the TEAM on Government and Industry committees such as the Joint Aeronautical Commanders Group, the Systems Engineering Steering Group, and the National Defense Industrial Association's Systems Engineering Committee.

AGING AIRCRAFT SYSTEMS ENGINEERING OFFICE (4.1D/41D000_) - Provides the people and processes necessary to generate, manage, and administer systems engineering policies with respect to aircraft age, and to monitor and coordinate progress across the systems and subsystems. Provides support to naval aircraft, weapons, and support systems programs from technology development through disposal.

SOFTWARE PROCESS IMPROVEMENT OFFICE (4.1F/41F000_) - Provides facilitation, consulting, communication, and coordination for systems and software process improvement efforts across the NAVAIR TEAM.

SYSTEMS ENGINEERING MANAGEMENT (4.1.1/411000_) - Provides resources needed by IPTs, EDTs, PSTs, and ETs to perform overall technical work planning, development of technical team structure, composition and alternatives, system requirements development, system requirements management, configuration baseline management, risk management and technical performance measurement and tracking across a broad spectrum of scientific and engineering disciplines to achieve an integrated, balanced total system that meets cost, schedule and performance objectives in naval aviation's unique operating environment over the entire life cycle.

PEO(T) TACTICAL AIRCRAFT PROGRAMS (4.1.1.1/411100_) - The engineering personnel are all members of Systems Engineering Management and are assigned to PEO(T) program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE) and their immediate staff, Fleet Support Team (FST) leaders, site IPT leaders, etc. Level 4 organizations are only created at applicable sites as necessary for span of control.

PEO(A) ASW, ASSAULT AND SPECIAL MISSION PROGRAMS (VERTICAL LIFT) (4.1.1.2/411200_) - The engineering personnel are all members of Systems Engineering Management and are assigned to PEO(A) (Vertical Lift) program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE) and their immediate staff, Fleet Support Team (FST) leaders, site IPT leaders, etc. Level 4 organizations are only created at applicable sites as necessary for span of control.

PEO(A) ASW, ASSAULT AND SPECIAL MISSION PROGRAMS (FIXED WING) (4.1.1.3/411300_) - The engineering personnel are all members of Systems Engineering Management and are assigned to PEO(A) (Fixed Wing) program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE) and their immediate staff, Fleet Support Team (FST) leaders, site IPT leaders, etc. Level 4 organizations are only created at applicable sites as necessary for span of control.

PEO(AIR) AIR-1.0 AIRCRAFT AND AIRCRAFT SYSTEM PROGRAMS (4.1.1.4/411400_) - The engineering personnel are all members of Systems Engineering Management and are assigned to PEO(AIR) program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE) and their immediate staff, Fleet Support Team (FST) leaders, site IPT leaders, etc. Level 4 organizations are only created at applicable sites as necessary for span of control.

PEO(CU) UAV PROGRAMS (4.1.1.5/411500_) - The engineering personnel are all members of Systems Engineering Management and are assigned to PEO(CU) UAV program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE) and their immediate staff, Fleet Support Team (FST) leaders, site IPT leaders, etc. Level 4 organizations are only created at applicable sites as necessary for span of control.

PEO(T)/(CU) WEAPONS AND SUBSCALE TARGETS (4.1.1.6/411600_) - Engineering personnel assigned to this level 4 organization are assigned to PEO(T)/(CU) program teams. Typical assignments include Assistant Program Manager for Systems Engineering (APMSE), Deputy APMSE, and selected IPT leaders.

SYSTEMS DEVELOPMENT AND INTEGRATION (4.1.2/412000_) - Provides resources needed by IPTs, EDTs, PSTs and ETs to perform total system analysis, synthesis, simulation, design, and development necessary to (a) transform operational requirements into a description to total system performance parameters and a system configuration; (b) integrate related parameters and ensure compatibility of all physical and functional interfaces (including aircraft and stores integration); and (c) integrate and allocate reliability, maintainability, safety, survivability, human engineering, and other design requirements into the total system. Includes generation of technical engineering designs and drawings used for manufacture, assembly, modification, and installation of aircraft equipment and components.

SYSTEMS DEVELOPMENT AND INTEGRATION ENGINEERING BRANCH 1 (4.1.2.1/412100_) - The engineering personnel are all members of Systems Development and Integration Engineering and are assigned to a broad range of Naval air warfare systems program teams, including carrier-based tactical aircraft, shipboard capable vertical lift aircraft, maritime support aircraft or unmanned aircraft systems. Level 4 organizations are created at applicable sites only as necessary for span of control.

SYSTEMS DEVELOPMENT AND INTEGRATION ENGINEERING BRANCH 2 (4.1.2.2/412200_) – The engineering personnel are all members of Systems Development and Integration Engineering and are assigned to a broad range of Naval air warfare systems program teams, including carrier-based tactical aircraft, shipboard capable vertical lift aircraft, maritime support aircraft or unmanned aircraft systems. Level 4 organizations are created at applicable sites only as necessary for span of control.

SYSTEMS DEVELOPMENT AND INTEGRATION ENGINEERING BRANCH 3 (4.1.2.3/412300_) – The engineering personnel are all members of Systems Development and Integration Engineering and are assigned to a broad range of Naval air warfare systems program teams, including carrier-based tactical aircraft, shipboard capable vertical lift aircraft, maritime support aircraft or unmanned aircraft systems. Level 4 organizations are created at applicable sites only as necessary for span of control.

SYSTEMS DEVELOPMENT AND INTEGRATION ENGINEERING BRANCH 4 (4.1.2.4/412400_) – The engineering personnel are all members of the Systems Development and Integration Engineering and are assigned to a broad range of Naval air warfare systems program teams, including carrier-based tactical aircraft, shipboard

capable vertical lift aircraft, maritime support aircraft or unmanned aircraft systems. Level 4 organizations are created at applicable sites only as necessary for span of control.

PLATFORM SIMULATION AND INTEGRATION LABORATORY ENGINEERING (4.1.3/413000_) - Provides resources necessary to develop, update, operate, and maintain platform level systems simulation, integration and verification laboratory capabilities. These capabilities include the hardware and software tools utilized by IPTs, EDTs, PSTs, and ETs in their work processes to provide the products and services necessary to achieve a balanced total systems engineering effort that meets cost, schedule and technical performance objectives across the total life cycle. This level 3 organization involves the application of scientific and engineering efforts to identify, develop and/or apply state-of-the-practice simulation tools to achieve cost-effective physical and functional integration of air vehicle, avionics, crew, weapons, and support systems. The capabilities and data products of the laboratories associated with this level 3 organization are used to describe and prototype system concepts; define system requirements; conduct systems trade studies; perform aircraft subsystems and armament suite integration; design, develop and verify/validate Operational Flight Programs (OFPs); and verify overall system performance at the platform level. This support is applied to Naval aircraft, weapons, and support systems from technology development through disposal.

PLATFORM SIMULATION AND INTEGRATION LABORATORY ENGINEERING BRANCH 1 (4.1.3.1/413100_) – The engineering personnel are all members of Platform Simulation and Integration Laboratory Engineering and are assigned to teams to provide life cycle laboratory support of advanced carrier-based tactical aircraft such as the F/A-18.

PLATFORM SIMULATION AND INTEGRATION LABORATORY ENGINEERING BRANCH 2 (4.1.3.2/413200_) - The engineering personnel are all members of Platform Simulation and Integration Laboratory Engineering and are assigned to teams to provide life cycle laboratory support of carrier-based tactical aircraft such as the EA-6B and F-14.

PLATFORM SIMULATION AND INTEGRATION LABORATORY ENGINEERING BRANCH 3 (4.1.3.3/413300_) - The engineering personnel are all members of Platform Simulation and Integration Laboratory Engineering and are assigned to teams to provide life cycle laboratory support of carrier based tactical aircraft such as the AV-8B and special mission platforms such as the EP-3.

STANDARDIZATION AND STANDARDS (4.1.4/414000_) - Executes the DoD Standardization Program, parts control programs and to support the Navy's entire calibration program through Type I measurement standards which are traceable to national standards. Support is provided to IPTs, EDTs, PSTs, and ETs. This level 3 organization encompasses both the broad spectrum of technical disciplines necessary to develop/maintain Naval Aviation related specifications/standards, and the specific expertise in the science of metrology. In addition, the Navy Primary Standards Laboratory supports DoN as its highest echelon standards, laboratory, services all Navy calibration laboratories and facilities, other Government facilities, DoD contractors, and foreign government measurement laboratories; maintains and disseminates the most accurate units of measurement in the Navy Metrology and Calibration (METCAL) program; and develops and maintains precision measurement systems of the required accuracy to effectively provide measurement traceability from national standards. This support is applied to naval aircraft, weapons, and support systems from technology development through disposal.

PARTS CONTROL AND NOMENCLATURE (4.1.4.1/414100_) - Manages the DoD Parts Control Program to promote the use of standard parts in the design of Naval aviation systems and equipment. Provides assignment of "AN" nomenclature and serial prefix letters to identify equipment and component configurations.

SPECIFICATIONS AND STANDARDS (4.1.4.2/414200_) - Manages the TEAM's participation in the Defense Standardization Program to maintain the technical requirements of Naval aviation as documented in military specifications, standards, handbooks, commercial item descriptions, federal standards, and standards produced by non-government and international standards bodies, e.g., SAE, ASTM, AIA, ISO, NATO, etc.

METROLOGY ENGINEERING SUPPORT (4.1.4.3/414300_) - Functions as the cognizant field activity and provides in-service engineering support for calibration standards and test equipment. Service is provided to all Navy Calibration Laboratories, and facilities, other U.S. Government facilities, DoD contractors and foreign government measurement laboratories.

ELECTRONICS METROLOGY (4.1.4.4/414400_) - Maintains and disseminates the most accurate units of measurement in the areas of magnetism, voltage, resistance, inductance, capacitance, current power, phase, frequency, radiometry, photometry and electro-optics, Radio Frequency (RF), and microwave standards including

attenuation, impedance, power, phase, and frequency into millimeter wave range. In the area of magnetic measurements, this laboratory has assumed the task of national standards laboratory.

PHYSICAL METROLOGY (4.1.4.5/414500_) - Maintains and disseminates the most accurate units of measurement in the areas of length, angle, surface finish, dimensional optics, mass, volume, pressure, temperature, force, vibration, liquid and gas flow, viscosity, specific gravity, and gas analysis. This laboratory maintains and operates one of the most accurate flow measurement facilities in the world.

MASS PROPERTIES (4.1.5/415000_) - Analyzes and manages weight and other mass properties (center of gravity and moments of inertia) for all naval aviation systems throughout their life cycle. Support is provided to IPTs, EDTs, PSTs, and ETs. This level 3 organization involves developing weight prediction methodology, estimating weights and mass properties for conceptual and preliminary design, analyzing mass properties and developing mass properties data for other competencies, establishing mass properties design, management, verification and data requirements for acquisition programs, controlling mass properties during system development, production and modification, measuring the mass properties of completed hardware items, and providing engineering support for the weight and balance control of operational systems.

RELIABILITY AND MAINTAINABILITY ENGINEERING (4.1.6/416000_) - Ensures Naval aviation programs are reliable and maintainable through the tailored application of proven Reliability, Maintainability and Built-In-Test (R, M&BIT) design and test disciplines to fulfill mission needs. Support is provided to IPTs, EDT, PSTs, and ETs. This level 3 organization involves the application, management and control of a broad range of engineering disciplines (which includes establishment of quantitative R, M&BIT requirements, application of R, M&BIT and Reliability Centered Maintenance (RCM) analyses, and the conduct of R, M&BIT tests and demonstrations) to achieve a balanced engineering effort that meets cost, schedule and technical performance objectives across the total life cycle. This support is applied to naval aircraft, weapons, and support systems from technology development through disposal.

TACAIR R&M (4.1.6.1/416100_) - The engineering personnel are all members of R&M and are assigned to program teams to provide R&M design, development, integration, analysis and assessment, in-service engineering support, and Reliability Centered Maintenance services for carrier-based tactical aircraft.

SHIPBOARD CAPABLE VERTICAL LIFT AIRCRAFT, MARITIME SUPPORT AIRCRAFT (4.1.6.2/416200_) - The engineering personnel are all members of R&M and are assigned to program teams to provide R&M design, development, integration, analysis and assessment, in-service engineering support, and Reliability Centered Maintenance services for shipboard capable vertical lift aircraft and maritime support aircraft including unmanned air vehicles.

SYSTEMS R&M (4.1.6.3/416300_) - The engineering personnel are all members of R&M and are assigned to program teams to provide R&M design, development, integration, analysis and assessment, in-service engineering support, and Reliability Centered Maintenance services for avionics, aircrew, electromechanical and ground systems, as well as general aircraft systems.

SUPPORT AND AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) (4.1.6.4/416400_) - The engineering personnel are all members of R&M and are assigned to program teams to provide R&M design, development, integration, analysis and assessment, in-service engineering support, and Reliability Centered Maintenance services for aircraft launch and recovery equipment and support equipment.

WEAPONS R&M (4.1.6.5/416500_) - The engineering personnel are all members of R&M and are assigned to program teams to provide R&M design, development, integration, assessment, and in-service engineering support for weapons systems and weapon launch systems.

ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (E³) ENGINEERING (4.1.7/417000_) - Ensures cradle-to-grave system Electromagnetic Compatibility (EMC) in TEAM aircraft, aircraft weapon systems and subsystems, and ground support systems in support of Fleet mission needs. Provides the tailoring of E³ requirements to fulfill mission needs, the conduct of functional and risk analyses, and the engineering evaluation of system alternatives to ensure system designs are compatible with naval aviation's unique operational and battleforce Electromagnetic (EM) environment. The engineering expertise for the conduct of system engineering analyses from initial design, throughout the acquisition process, and extending to hardness assurance of operational systems to include engineering investigations and recommended solutions to known and suspected Electromagnetic Interference (EMI) problems affecting Fleet mission needs. Provides engineering knowledge and experience in

the management and control of the electromagnetic spectrum through the frequency allocation and spectrum certification procedures. Engineering support is provided directly to IDTs, EDTs, ETs, and the Fleet. Applies knowledge and engineering skills across the broad spectrum of disciplines known as E³. E³ includes EMI, Electromagnetic Vulnerability (EMV), EMC, high power radiated transient threats, lightning, precipitation static (p-static), Electrostatic Discharge (ESD), Emission Control (EMCON), TEMPEST, and the Hazards of Electromagnetic Radiation to Ordnance (HERO), Fuels (HERF), and Personnel (HERP). Provides total EM system engineering expertise to achieve a balanced system engineering and integration support effort to meet program cost, schedule, and technical performance objectives across the total life cycle of naval aviation systems, subsystems, and equipment.

SURVIVABILITY ENGINEERING (4.1.8/418000_) - Provides life-cycle survivability support to assigned programs. Survivability is defined as the ability of an air vehicle (i.e., aircraft, unmanned aerial vehicles, cruise missiles, or weapons) system to avoid and/or withstand a man-made hostile environment. The survivability of an air vehicle is comprised of its susceptibility and vulnerability. Susceptibility reduction (i.e., reducing the probability of detection, track, and hit by a weapon system) focuses on active and passive means of signature reduction, countermeasure effectiveness, and tactics. Signature reduction addresses reducing the Radar Frequency (RF), Infrared (IR), and visual, acoustic and electronic emission signatures of the air vehicle system. Vulnerability reduction (i.e., reducing the probability of damage once hit by a threat system damage mechanism) focuses on the hardening of subsystems and the design of redundancy and separation in air vehicle subsystems. Survivability addresses the effects of both conventional (e.g., ballistic and guided missile) threats and non-conventional (e.g. Chemical, Biological and Radiological (CBR) effects, Directed Energy Weapons (DEW) (lasers, High Power Microwave (HPM) and particle beam), and nuclear) threats.

SYSTEMS SURVIVABILITY INTEGRATION (4.1.8.1/418100_) - The people, processes, and facilities required to plan and implement those analyses and engineering and design validation techniques required to assess and increase the survivability of air vehicles against threat systems. Performs survivability requirements analyses, translates analyses results into system survivability specifications, conducts system level survivability trade studies (e.g. system vulnerability versus susceptibility reduction, lethality versus survivability, etc.), integrates the results of susceptibility and vulnerability analyses and testing into overall systems survivability assessments, performs survivability analyses

in support of Analyses of Alternatives (AoA), conducts analyses to verify system performance in the area of survivability, conducts survivability modeling and simulation development, Verification, Validation, and Accreditation (VV&A), and conducts testing required for validation and establishment of data bases.

SYSTEMS SUSCEPTIBILITY (4.1.8.2/418200_) - The people, processes, and facilities required to plan and implement those analyses and engineering and design validation techniques required to assess and reduce the susceptibility of aircraft and weapon systems to successful engagement by threat systems. Translates systems survivability requirements into realistic, achievable and detailed susceptibility reduction specifications, conducts system level trade studies regarding susceptibility reduction techniques, and verifies susceptibility reduction specification compliance through analyses and tests. Provides expertise in the prediction, measurement, and reduction of RF, IR, visual, acoustic, and electronic emission signatures and in the determination of the effectiveness of these reductions and reduction techniques. Supports susceptibility reduction technology research, development, test, and evaluation.

SYSTEMS VULNERABILITY (4.1.8.3/418300) - The people, processes, and facilities required to plan and implement those analyses and engineering and design validation techniques to assess and reduce the physical vulnerability of the air vehicle systems to the terminal effects of successful engagements by threat systems. Threats include both conventional (e.g., ballistic and guided missile) and non-conventional (e.g., CBR effects, DEW (lasers, HPM and particle beam), and nuclear) systems. Translates systems vulnerability reduction requirements into realistic, achievable and detailed vulnerability reduction specifications, conducts system level trade studies regarding vulnerability reduction techniques, and verifies vulnerability reduction specification compliance through analyses and tests including mandated "live fire testing." Provides expertise in the prediction, quantification, and reduction of air vehicle vulnerability and in the determination of the effectiveness of these reductions and reduction techniques. Supports vulnerability reduction technology research, development, test, and evaluation.

MANUFACTURING ENGINEERING (4.1.9/419000_) - Assesses design, manufacturing processes, and tooling; mitigate production transition risk through evaluating design and manufacturing alternative in light of program affordability, manufacturing efficiency and quality objectives; and

identifies and resolves production and quality problems experienced in the field or manufacturing facility. These functions are performed to optimize the total system solution. This level 3 organization involves the application of concurrent engineering, quality assurance, producibility, and manufacturing planning/management techniques to achieve a balanced total engineering effort that meets cost, schedule, and technical performance objectives across the total life cycle. This support is applied to naval aircraft, weapons, and support systems from manufacturing technology and early systems development through disposal.

PRODUCTION ENGINEERING (4.1.9.1/419100_) - Provides technical personnel and processes required by IPTs, EDTs, PSTs, and ETs to perform production and quality engineering tasks such as producibility reviews, geometric dimensioning and tolerancing analyses, failure analyses, production readiness reviews, and other production engineering tasks.

QUALITY ENGINEERING (4.1.9.2/419200_) - Provides quality engineers, quality assurance specialists, and processes to IPTs, EDTs, PSTs, and ETs to perform quality assurance audits and reviews, quality assurance contract provisions, production readiness reviews, and other quality engineering and quality assurance tasks.

SYSTEMS SAFETY ENGINEERING (4.1.10/41J000_) - Identifies potential hazards in an aircraft, weapon, support system or subsystem, and then take sufficient action which will reduce the risk of those hazards to an acceptable level and optimize the total systems solution. This level 3 organization involves the application of scientific and engineering efforts to establish design requirements, implement management controls, and monitor contractor systems safety efforts to achieve a balanced total engineering effort that meets cost, schedule, and technology performance objectives across the total life cycle. This support is applied to naval aircraft, weapons, and support systems from technology development through disposal.

SYSTEM SAFETY ENGINEERING BRANCH 1 (4.1.10.1/41J100_) - The engineers provide system safety engineering support to a variety of systems including: fixed and rotary wing aircraft, aerial targets, unmanned air vehicles, aircraft launch and recovery equipment, and other DoD programs.

SYSTEM SAFETY ENGINEERING BRANCH 2 (4.1.10.2/41J200_) - The engineers and technicians provide system safety engineering support to a variety of systems including: carrier-based

tactical aircraft; shipboard capable vertical lift aircraft; maritime support aircraft; and air-to-air, air-to-surface, and shipboard launched missile systems.

SOFTWARE ENGINEERING (4.1.11/41K000_) - Responsible for software systems engineering and engineering management of the processes used to develop, procure, and support aviation weapons systems computer resources (hardware and software). Provides policy guidance and training for software engineering members of IPTs.

SOFTWARE DEVELOPMENT AND LIFE CYCLE SUPPORT BRANCH 1 (4.1.11.1/41K100_) - Provides the people, technology, and processes for development, acquisition, and support of operational flight software associated with avionics systems at the platform (or weapons systems) level. Responsible for the software engineering activities (software requirements, design, code, integrate, and test) associated with developing mission critical computer software and for establishing and sustaining the capability to provide platform software life cycle support, usually via a Software Support Activity. Software engineering activities are applied from software requirements formulation through Fleet introduction and support to system retirement.

FIGHTER SOFTWARE DEVELOPMENT (A) (4.1.11.1.1/41K110_) - Responsible for the design, development, and fielding of high quality F-14A/B tactical software and subsystem upgrades required to support the Fleet.

FIGHTER SOFTWARE DEVELOPMENT (B) (4.1.11.1.2/41K120_) - Responsible for developing, integrating, and testing system software and hardware changes for the F-14D. Responsible for managing the preparation of software performance, interface, and test requirements; completing the design, code, integration, and test of software changes; and performing laboratory system and safety testing for Operational Flight Program releases to F-14D squadrons.

TRAINER SOFTWARE DEVELOPMENT (4.1.11.1.3/41K130_) - Serves as the Trainer Software Support Activity (TSSA) for the F-14A/B/D Aircrew Trainer Suites. TSSA is responsible for software system baseline control and maintenance, configuration accounting, analysis, design, and change implementation, documentation, tape verification, and distribution of software update information.

VSTOL SOFTWARE DEVELOPMENT (4.1.11.1.4/41K140_) - Provides personnel, processes, and tools to fulfill the software and hardware engineering, fleet support, and innovative state-of-the-art approaches to system and software requirements for a wide range of projects and systems. Specific tasking includes fleet support for the AV-8B Mission Computer (MC), Stores Management System (SMS), and the Display Computer (DC), as well as support for the AV-8B Mux Bus Data System (AMDS), Aircraft Life Extension Program/Fatigue Life Tracking System (ALEP/FLTS), and Tactical Aircraft Mission Planning System (TAMPS) in a software and hardware engineering environment.

ROTARY WING SOFTWARE DEVELOPMENT (4.1.11.1.5/41K150_) - Responsible for software development on avionics involved in H-1 communication, navigation, mission support, weapons, and sensors. Provides system requirements driven software that is produced to the level that will assist the U.S. Marines in executing their missions in the best way possible.

STRIKE SOFTWARE DEVELOPMENT (4.1.11.1.6/41K160_) - The F/A-18 Software Strike Software Development Team and is the primary design agent for F/A-18 out-of-production aircraft. This currently includes F/A-18 A/B model aircraft and the F/A-18 C/D SMS subsystem. In FY98, it transitioned to primary design agent for the F/A-18 C/D model.

SOFTWARE SUPPORT INTEGRATION (4.1.11.1.7/41K170_) - Responsible for providing software loading support primarily for the F/A-18, AV-8B, A-6E, and F-14 aircraft. Technical functions performed include hardware and software development, software maintenance, configuration management, media generation, and integration and validation testing for several types of software loaders.

SIGNAL PROCESSING SOFTWARE (4.1.11.1.8/41K180_) - Responsible for the design, development, integration, test, and fleet introduction of software products based in Signal Processing Technology Systems. It provides the state-of-the-art software engineering expertise necessary to provide the Fleet with products of the highest

quality. This includes the acquisition and engineering efforts for signal processing software development and sustainment. Projects supported include AN/UYS-1, Enhanced Modular Signal Processor (EMSP), AN/UYS-2, and ACV-OS replacement efforts, as well as Air Common Acoustic Processor (ACAP), Extended Echo Ranging (EER/IEER), and Single Advanced Signal Processing (SASP) products.

MISSION PLANNING SOFTWARE (4.1.11.1.9/41K190_) - Responsible for the design, development, integration, test and fleet introduction of Tactical Aircraft Mission Planning Software (TAMPS) products. It provides the software engineering expertise to implement TAMPS Mission Planning Modules (MPM), evaluate force-level planning systems designed to interface with TAMPS, evaluate weaponeering Tactical Decision Aids and generally support mission planning software development efforts across multi-platforms. Projects supported include TAMPS Software System development/enhancement, Joint Mission Planning System (JMPS) requirements evaluation and software development, and Stores, Planning and Weaponeering (SPW) applications development.

SIMULATION SOFTWARE (4.1.11.1.10/41K1J0_) - Responsible for the design, development, integration, and test of simulation software products which have defining characteristics of being based partially or wholly on math models, military or commercial computer hosted, airborne and/or land based. Products include aerodynamic flight performance modeling, flight test support, tactics/sensor modeling, and weapons simulation software, crew task loading analysis, threat simulation software, device simulation such as display and cockpits, and the broad category of training simulation. This latter includes: Flight and System Performance Training/Analysis, Decision-Making Simulation, Six Degree of Freedom Motion Systems, and Tactics Training Software Product Lines.

ELECTRONIC WARFARE SOFTWARE (4.1.11.1.11/41K1K0_) - Responsible for the technical management and engineering support for avionics related computer software for Electronic Warfare (EW) passive and active sensor systems. Technical functions include software and engineering support to the overall electronic warfare systems

mission to detect, classify, identify, jam, and confuse enemy electronics systems. Electronic warfare systems are also used to protect friendly aircraft from identification and targeting by enemy systems. Software engineering support is provided to the primary EW systems that include AAR-47, ALE-50, ALR-67(V)3, ALQ-165, IDECM, and APR-39. Responsibilities also include providing software engineering support to the Foreign Military Sales relative to Electronic Warfare Systems.

SOFTWARE TECHNOLOGY AND ENVIRONMENTS (4.1.11.2/41K200_) - Provides the technology, tools, and support environments needed by the software development and life cycle support functions to analyze, and develop software requirements, design, code, test, integrate, and maintain their software products.

SOFTWARE PRODUCT INTEGRITY (4.1.11.3/41K300_) - Assesses the quality of software products and analyzes the processes being used to develop these products. The function is used to establish and maintain the integrity of the products of the software project throughout the project's software life cycle. Focus areas include: Software Configuration Management, Software Quality Assurance, and Software Systems Safety. Determines whether or not the products of a given phase of the software development cycle fulfill the requirements established during the previous phase and evaluates software products at the end of the development process to ensure compliance with software requirements.

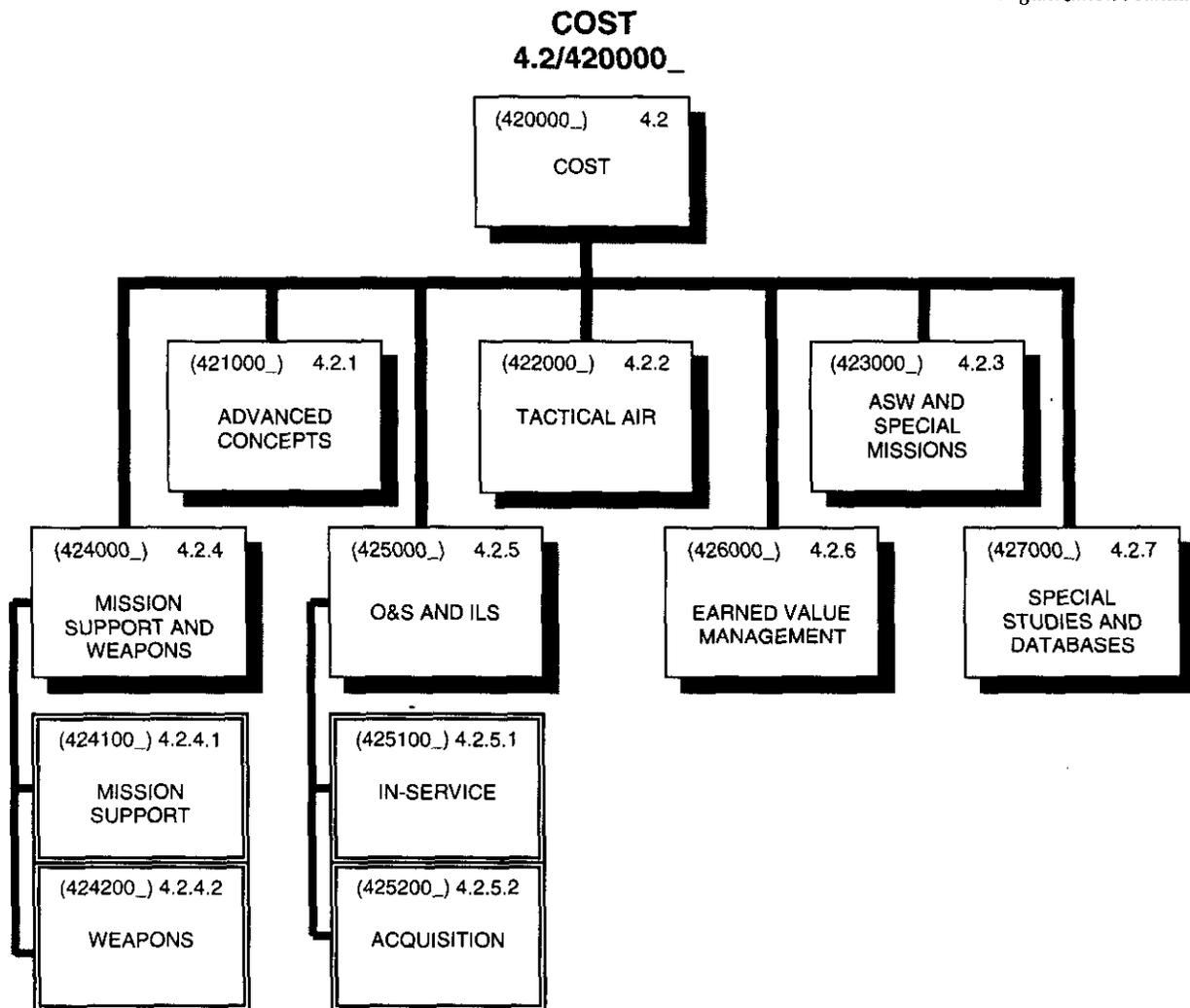
SOFTWARE DEVELOPMENT AND LIFE CYCLE SUPPORT BRANCH – 2 (4.1.11.4/41K400_) - Provides the resources for development, acquisition, and support of operational flight software associated with avionics systems at the platform (or weapon systems) level. Responsible for the software engineering activities (software requirements, design, code, integrate, and test) associated with developing mission critical computer software and for establishing and sustaining the capability to provide platform software life cycle support, usually via a Software Support Activity. Software engineering activities are applied from software requirement formulation through Fleet introduction and support to system retirement.

MARITIME SURVEILLANCE AIRCRAFT SOFTWARE (4.1.11.4.1/41K410_) - Responsible for the design, development, integration, test, and fleet introduction of

software products for maritime surveillance aircraft. It provides the state-of-the-art software engineering expertise necessary to provide the Fleet with products of the highest quality. The products comprise real-time operating system software, tactical mission software, system test software, and simulation software. Projects supported include P-3C, S-3B, ES-3/EP-3/VPU, and Beartrap platform configurations and Foreign Military Sales customers.

AIRBORNE EARLY WARNING SOFTWARE (4.1.11.4.2/41K420_) - Responsible for the design, development, integration, test, and fleet introduction of software products for the next generation of the airborne early warning platform, the E-2C Hawkeye 2000. Provides the IPT with the system software engineering expertise to implement critical software functions for the Mission Computer Upgrade and to design and integrate major functional enhancements. It has responsibility for establishing and maintaining a software support activity for the platform, as well as designing and developing a government/contractor software development facility that includes the software-engineering environment and software integration laboratory.

WEAPONS SOFTWARE ENGINEERING (4.1.11.5/41K500_) – Provides the resources necessary to perform pre and post-deployment software life-cycle support of weapons systems and weapon mission planning. This support includes: software acquisition, management, development, maintenance, and the development of emerging technology which consists of requirements analysis, design, implementation, test and integration, software quality assurance, and software configuration and data management.



COST (4.2/420000) – Provides the assets for a clear and comprehensive understanding of Total Ownership Costs (TOC) and their attendant uncertainties to be used in developing, acquiring, and supporting affordable Naval Aviation Systems. Responsible for program cost estimating; analysis of affordable readiness/TOC initiatives; resource analysis; earned value management analysis (e.g., contract cost and schedule performance evaluation, Management Control System Compliance Reviews); and data quality standards in support of TEAM program and project management efforts throughout systems' life cycles. Provides coordination and control of cost estimating/analysis and cost data produced throughout the TEAM and develops TEAM-wide processes, policy, toolkits, and standards for cost estimating/analysis, data, and training. Major processes include, but are not limited to, "Perform Life Cycle Cost Estimating", "Perform Source Selection Cost Evaluation", "Perform Earned Value Management", "Establish/Maintain Databases and Methods", and "Develop Work Breakdown Structures".

ADVANCED CONCEPTS (4.2.1/421000_) – Provides cost estimating and analysis support specifically for programs in Concept Exploration through the early phases of development. Included are the evaluation of unfunded programs in advance of formal team creation and the initiation of major aviation programs. Division products and services largely encompasses the processes *“Perform Life Cycle Cost Estimating”* and *“Perform Source Selection Cost Evaluation”*. However, the work requires knowledge of and interface with all Department processes. Workload covers major platform components (e.g., airframe, propulsion, and avionics). The interfaces, techniques, data, and methods needed to perform work emphasize qualitative and analytical skills. This includes statistical rigor; an understanding of technical baselines; engineering judgement; the translation of technical and financial risk into cost; budgeting and the Planning, Programming, and Budgeting System; the acquisition process; and logistics support processes.

TACTICAL AIR (4.2.2/422000_) – Provides the cost estimating and analysis support for tactical aircraft weapon systems (e.g., aircraft, avionics, propulsion systems). Included is support of RDT&E, production, and modification programs, with emphasis on the latter two. Products and services largely encompass the processes *“Perform Life Cycle Cost Estimating”* and to some lesser extent the process *“Perform Source Selection Cost Evaluation”*. However, the work requires knowledge of and interface with all Department processes. The interfaces, techniques, data, and methods needed to perform work emphasize qualitative and analytical skills. This includes an understanding of technical baselines; technical judgement; the translation of technical and financial risk into cost; budgeting and the Planning, Programming, and Budgeting System; the acquisition process; and logistics support processes. An understanding of contractor development and manufacturing processes, business systems and operations, and prime/subcontractor relationships is also required. Products include, but are not limited to, budget estimates, alternatives costing, modification program estimates, source selection evaluations, and milestone review/CAIG support.

ASW AND SPECIAL MISSIONS (4.2.3/423000_) – Provides the cost analysis support for all Anti-Submarine Warfare (ASW) and special missions weapon systems (e.g., aircraft, avionics, and propulsion systems). Included is the analysis of RDT&E, production, and modification programs with emphasis on the latter two. Division products and services largely encompass the processes *“Perform Life Cycle Cost Estimating”* and to some lesser extent the process *“Perform Source Selection Cost Evaluation”*. However, the work requires knowledge of and interface with all Department processes. The interfaces, techniques, data, and methods needed to perform work emphasize qualitative and analytical

skills. This includes an understanding of technical baselines; technical judgement; the translation of technical and financial risk into cost; budgeting and the Planning, Programming, and Budgeting System; the acquisition process; and logistics support processes. An understanding of contractor development and manufacturing processes, business systems and operations, and prime/subcontractor relationships is also required. Products include, but are not limited to, budget estimates, alternatives costing, modification program estimates, source selection evaluations, and milestone review/CAIG support.

MISSION SUPPORT AND WEAPONS (4.2.4/424000_) – Provides the cost estimating and analysis support for all aircraft mission support systems and weapons (e.g., missiles, Unmanned Air Vehicle (UAV) systems, targets, and avionics subsystems that are common to several platforms). Included is support of RDT&E, production, and modification programs. Division products and services largely encompass the two processes “*Perform Life Cycle Cost Estimating*” and “*Perform Source Selection Cost Evaluation*”. However, the work requires knowledge of and interface with all-Department processes. The interfaces, techniques, data, and methods needed to perform work emphasize qualitative and analytical skills. This includes an understanding of technical baselines; technical judgement; the translation of technical and financial risk into cost; budgeting and the Planning, Programming, and Budgeting System; the acquisition process; and logistics support processes. An understanding of contractor development and manufacturing processes, business systems and operations, and prime/subcontractor relationships is also required. Products include, but are not limited to, budget estimates, alternatives costing, modification program estimates, source selection evaluations, and milestone review/CAIG support.

MISSION SUPPORT (4.2.4.1/424100_) – Provides the functions noted in 4.2.4 above in support of aircraft mission support systems.

WEAPONS (4.2.4.2/424200_) – Provides the functions noted in 4.2.4 above in support of weapons.

O&S AND ILS (4.2.5/425000_) – Responsible for providing Integrated Logistics Support (ILS) and Operations and Support (O&S) cost estimating products and services for aircraft, missile, avionics and engine programs, both advanced and operational systems/subsystems. Products and services largely encompass the processes “*Perform Life Cycle Cost Estimating*” and “*Establish/Maintain Databases and Methods*”. However, the work requires knowledge of and interface with all Department processes. These products include major milestone review/CAIG support, source selection analyses, alternatives costing, maintenance trade

studies, force level analyses, and budgetary requirements. In the area of ILS, works closely with logistics element managers to identify and understand the requirements associated with Support Equipment, Training, Supply Support, Technical Publications, Facilities, and other related ILS Management and engineering disciplines. In the area of O&S, prepares estimates/analyses for new systems addressing cost to be incurred during fleet operations. O&S estimators also conduct a variety of analyses associated with the actual operating costs of fielded systems. Primary cost categories addressed include Personnel, Consumables, Depot Repair and Maintenance, Sustaining Investment, and selected Indirect costs categories. In support of Affordable Readiness initiatives, analysts evaluate and estimate the cost of system changes that have the potential to reduce overall life cycle cost.

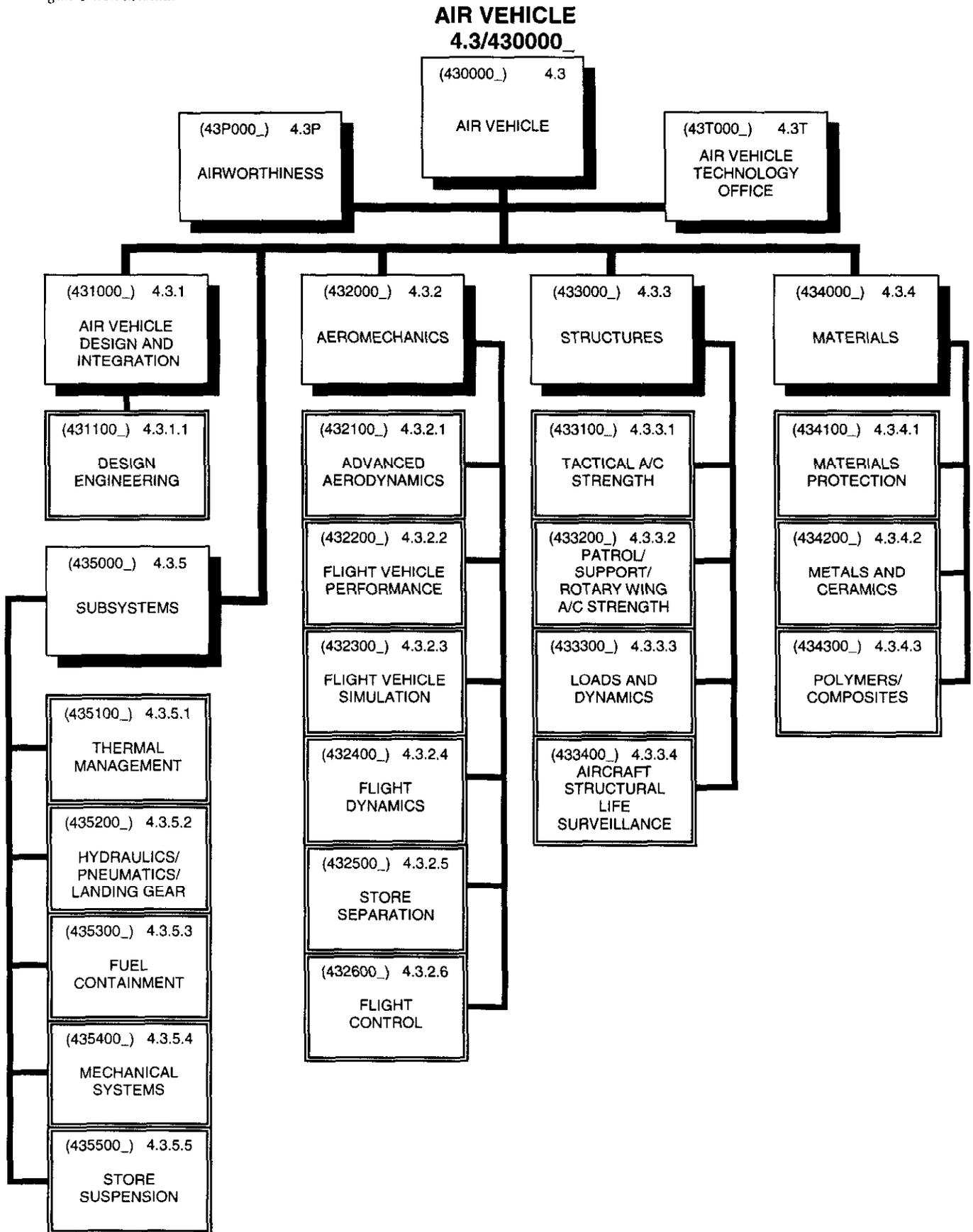
IN-SERVICE (4.2.5.1/425100_) – Provides the functions noted in 4.2.5 above in support of weapon systems after fielding.

ACQUISITION (4.2.5.2/425200_) – Provides the functions noted in 4.2.5 above in support of weapon systems prior to fielding.

EARNED VALUE MANAGEMENT (4.2.6/426000_) – Facilitates performance management of acquisition projects or government in-house activities through cost and schedule risk identification and mitigation using Earned Value Management (EVM) tools and disciplines. This level 3 organization is specifically the lead for the process *“Perform Earned Value Management”*. Performance management includes developing or selecting an appropriate management system and cost/schedule performance reporting requirements followed by monthly analysis of cost and schedule performance, problem identification and resolution, and support of Management Control System reviews and Integrated Baseline Reviews. The post-award activities are the most visible and resource intensive of these activities. The tools, knowledge, experience, and skills required are quite different from those associated with the classic cost estimating functions. These include in-depth knowledge of experience with the DOD acquisition planning, programming, and budgeting process and both contractor and government in-house project management operations (i.e., organization, work authorization, planning, budgeting, scheduling, accounting, performance measurement analysis, material, production, change control, and supplier subsystems).

SPECIAL STUDIES AND DATABASES (4.2.7/427000) – The products and services provided cross all other level 3 organizations within Cost and support all level 2 organization processes. Special Studies and Databases is specifically the lead for the process *“Establish/Maintain Databases and Methods.”* It also plays a significant role in the process

“Develop Work Breakdown Structures.” However, the work requires knowledge of and interface with all level 2 organization processes. Responsible for leading the development, validation, and maintenance of the methods, models, processes, cost/technical databases, and tools that are used by other level 3 organizations. Provides continuous cost estimating/analysis support to the Corporate Business Office. Responsible for supporting many of the special studies requested by Cost’s various customers. Many of these studies cross level 3 organization lines or are high-visibility Corporate-level projects (e.g., Commercial Activity studies).



AIR VEHICLE (4.3/430000_) - Provides the resources to support the maritime engineering needs of technology development, system acquisition and product support of all Naval aviation aircraft. Support is provided to IPTs, NAVSTO, and the general needs of naval aviation. Air Vehicle Engineering consists of Air Vehicle Systems Engineering, Aeromechanics, Structures, Materials, Vehicle Subsystems, Airworthiness, and Air Vehicle Technology Office.

AIRWORTHINESS (4.3P/43P000_) - Responsible for the management and oversight of the disciplined engineering assessment of flight operating limitations for developmental aircraft and weapons including non-standard aircraft/weapons configurations to ensure that flight operations are conducted within an acceptable level of risk. This includes responsibility for technical data/operating limits for mature aircraft under the NATOPS and TACMAN programs. Airworthiness products include the following: flight clearance documents, interim NATOPS changes, and interim TACMAN changes. It is also responsible for the administration of the air worthiness policies for the TEAM under NAVAIRINST 13034.1, including establishing and controlling the delegated authority to Test Wings.

AIR VEHICLE TECHNOLOGY OFFICE (4.3T/43T000_) - Provides management and administration of Air Vehicle S&T enterprise and externally directed programs in support of NAVSTO. These people initiate, plan, program, budget, advocate, network, defend, execute and transition S&T and non-IPT 6.4 (formerly 6.3B) programs. The senior member of the Air Vehicle Technology Office is currently assigned as the Aircraft Product Line Team (PLT) leader to oversee and direct the multi-competency research and technology activities of aircraft product line Technology Project Teams (TPTs). Other members provide support to NAVSTO as members of the PLT leadership team and, as assigned by the PLT leader, as specific TPT project team leaders.

AIR VEHICLE DESIGN AND INTEGRATION (4.3.1/431000_) - Provides resources to conduct systems integration tasks on those systems that are contained within the air vehicle. They may act as the Air Vehicle lead for the Systems Engineering Team, when requested. They provide these skills to enterprise programs, including those of NAVSTO, for which there is no established IPT. Work boundary or interface concerns between airframe systems and is concerned with specifications or design criteria for standard or common equipment. They participate in and/or manage tasks, which require an integrated assessment of the entire airframe system - such as "design for maintainer."

DESIGN ENGINEERING (4.3.1.1/431100_) - Provides the resources necessary to carry out air vehicle/test article design when requested by the appropriate team. This includes aircraft avionics systems integration, structural modifications, electrical and

mechanical design, and integration. They develop prototype through production (Levels 1, 2 and 3) data packages and manage engineering data. They provide the cost estimate for aircraft modifications and associated work. They work directly with Industrial Operations to oversee and direct the execution of aircraft modifications/equipment installation. They provide rapid prototyping capability.

AEROMECHANICS (4.3.2/432000_) - Includes engineering activities related to both aerodynamics and flight dynamics. The flight dynamics function includes the analysis and assessment of stability and control, flying qualities, store separation, and jettison. The members assess flight control laws and control law development techniques, dynamic models of aircraft for use in simulations, and conduct simulations. They are concerned with issues such as PIO, stalls, departures, spins, and spin recovery. Provides analysis of carrier suitability. The aerodynamics function provides Computational Fluid Dynamics (CFD) studies of aerodynamic conditions around air vehicles, external stores, internal weapon bays, and engine inlets. CFD and other tools are used to study and predict air vehicle performance, store separation, and airflow at the engine face. Aerodynamic tools are used to develop Tactical Manuals, NATOPS Manuals, and energy maneuverability calculations.

ADVANCED AERODYNAMICS (4.3.2.1/432100_) - Encompasses the development of new and improved aerodynamic technologies to the Navy's manned and unmanned fixed wing and rotary wing aircraft. Provides the aerodynamic research required by the Navy; develops and validates methods for aerodynamic and performance analysis; derives, maintains, and improves engineering criteria, techniques, and methodologies for predicting the aerodynamic characteristics for which other aeromechanics competencies are responsible; and the advanced aerodynamic analysis as required by outside competencies dealing with external aerodynamic interaction effects. It is responsible for defining and conducting the Navy's aerodynamic Science and Technology research programs. Provides the development and application of computational fluid dynamics and resolves wind tunnel test technique issues, which arise while conducting research into fundamental aerodynamic principles and advanced aerodynamic concepts. Analytic investigations are conducted to derive, maintain, and improve engineering criteria, techniques, and methodologies for predicting aerodynamic characteristics; reducing the technical risk associated with the design and development of Navy aircraft. Concepts and methods are developed and validated for reducing aerodynamic drag or increasing usable aerodynamic lift in flight vehicle

configurations. As required by outside competencies, such as Concept, Analysis, Evaluation and Planning, also provides computational fluid dynamics analysis, lower level theoretical and empirical analysis, and conceptual wind tunnel support, in the aerodynamic characterization of advanced or unique configurations. The work of this level 4 organization requires a close interaction with other level organizations within aeromechanics in defining the support required and other outside competencies in defining the interaction effects between the external flow over the aircraft and the internal flow of the inlet, the wing/tail structure loading and the shaping associated with radar cross section characteristics.

FLIGHT VEHICLE PERFORMANCE (4.3.2.2/432200_) - Includes Flight Vehicle Performance engineering activities for manned Fixed Wing and Rotary Wing Aircraft and Unmanned Air Vehicles. Responsible for and is the official source for aerodynamics data (lift and drag) and performance information for Navy air vehicles from conception until retirement from active service. This includes inputs to technical development plans, development of specifications for Request for Proposals, evaluation of proposed designs, monitoring of engineering design, flight test development and demonstration, and determining compliance with contract performance guarantees. It includes preparation, publication, and distribution of Standard Aircraft Characteristics (SAC) Charts, which are a summary of aircraft data for use by higher authority for planning purposes. It also includes responsibility for the aerodynamic performance portions of Navy preliminary evaluations, technical evaluations and support of operational evaluations. Interfaces with Propulsion Installation to correctly account for throttle independent/dependent forces and ensure satisfactory aerodynamic performance. Provides aircraft launch and recovery airspeeds plus other pertinent vehicle performance data to the Ship Compatibility Program Manager for generation of launch and recovery bulletins. Wind tunnel testing, flight testing, computational fluid dynamics, and other analytical tools are utilized to study and predict aerodynamic forces and moments, which are used to generate and maintain databases for calculating air vehicle performance. Aerodynamic techniques and tools are used in developing performance data for NATOPS manuals and energy and maneuverability comparisons for tactical manuals, for both friendly and potential threat air vehicle systems. Recommends and formulates supporting research and development programs within the domain of the competency's technical cognizance for inclusion in the Navy's research and technology program and provides technical direction, as required.

They initiate and conduct limited applied research programs for the solution of specific engineering problems that arise in the area of flight vehicle performance.

FLIGHT VEHICLE SIMULATION (4.3.2.3/432300_) - Includes the systems engineering and technical activities required to support all aspects of RDT&E including basic research, exploratory, and advanced development, all phases of the acquisition process from mission needs definition, concept exploration through engineering and manufacturing development, and operations and support. This activity applies to aircraft weapon systems/training systems for all manned and unmanned air vehicles. Systems engineering activities include life cycle planning and in-service support for both aircraft and training systems. Advanced flight simulation engineering and facility resources are provided for the development of (1) a real-time, man-in-the-loop hardware and software simulation environment, (2) high fidelity aerodynamic, propulsion and flight control simulations, (3) high fidelity cockpits, (4) advanced system identification aerodynamic and propulsion data analysis techniques, and (5) verification, validation, and accreditation procedures/techniques for the overall hardware/software integrated real-time simulation. Supports other competencies in developing and maintaining aerodynamic and propulsion databases. Engineers support real time simulation evaluations of aircraft flying qualities, flight control system, flight test planning and flight test rehearsal activities. Supports operational flight training systems by developing prototype engineering simulations for pilot flight training and providing technology transfer of advanced training systems concepts in the fleet. Research is conducted to ensure simulation technology and capabilities are developed to meet the ever-expanding needs of naval aviation.

FLIGHT DYNAMICS (4.3.2.4/432400_) - Responsible for the flight dynamics of all Naval aircraft (manned and unmanned) including aerodynamic stability and control characteristics, flying qualities, and all related aerodynamics. This level 4 organization includes the systems engineering and technical activities required to support all aspects of RDT&E including basic research, exploratory, and advanced development, all phases of the acquisition process from Mission Need Statement (MNS) definition, Concept Exploration and Development through Engineering and Manufacturing Development, and follow-on Operations and Support. It is responsible for the development, definition, and administration of general flying qualities performance criteria for air vehicles (conventional, V/STOL, and Rotary Wing), the tailoring of

performance criteria to the particular requirements of specific vehicles, and the definition of data and flight demonstration requirements. Monitors/manages the progression of the vehicle through the acquisition cycle, ensuring that the engineering and test efforts are sufficient and appropriate to meet the terms of the contract and/or to provide a vehicle that satisfies the mission requirements. Personnel utilize analysis, CFD, wind tunnel, free flight and drop models, off and on line simulation, and flight test results to perform its support functions. Responsible for providing direction, definition, methodology, and focus for analytical and test efforts (wind tunnel, simulation, flight test), and using the results in analysis of specific flight dynamics characteristics and problems. Responsible for ensuring safe flight envelopes for flight test development, evaluation, and operational use of Naval aircraft from a flight dynamics standpoint, and for providing flight characteristics, limitations, techniques, and procedures for NATOPS flight manuals.

STORE SEPARATION (4.3.2.5/432500_) - Responsible for safe aircraft/store separation within an operationally functional/suitable envelope, as well as safe jettison capability. Includes the systems engineering and technical activities required to support all aspects of RDT&E including basic research, exploratory, and advanced development, all phases of the acquisition process from mission need statement definition, concept exploration and development through engineering and manufacturing development and follow-on operations and support. Conducts analyses and tests required to predict and expand the regions of safe separation and jettison for all aircraft/store (weapon, missile, target, UAV, sensor pods, etc.) configurations. This includes reviewing and updating criteria for store separation and integration and supporting the acquisition process for new aircraft and stores. Establishes wind tunnel, dynamic simulation, and flight test requirements that lead to the final flight clearance recommendation, including data telemetry of selected aircraft parameters and optical tracking coverage. It also determines the number of assets required to expand to the maximum launch/separation envelope based on the inherent risk. This level 4 organization includes skills pertaining to aerodynamic analysis, aerodynamic load and flow field prediction, six degree-of-freedom dynamic trajectory analyses, specialized aircraft/store wind tunnel flight testing techniques, and the correlation and normalization of the accumulated information. Work closely with other competencies and contractors that provide the required test data. In particular, interacts with wind tunnel, simulation, and flight test personnel to deliver a final product that is safe, operationally suitable, and effective.

FLIGHT CONTROL (4.3.2.6/432600_) - Responsible for the development, standardization, test, evaluation, production engineering, and fleet support of flight control systems and components. Encompasses systems engineering and technologies associated with flight control systems, components and subsystems providing primary control (i.e., pitch, roll, yaw), secondary control (e.g., flaps, trim), automatic control (e.g., "hold" modes), auto throttle, and integrated propulsion control for all manned and unmanned air vehicles. Flight control systems include all components required to transmit control signal or commands from the pilot or other sources to appropriate force and moment producers. These include cockpit primary and secondary controls, sensors (including dedicated inertial and air data sensors), mechanical linkages, electronics flight control computers, actuators on control surfaces (including thrust vectoring devices), and the software comprising the operational flight program for digital systems. Responsible for development, definition, and administration of general performance criteria of flight control systems and well as the tailoring of these criteria to the particular requirements of a specific vehicle; system architecture and redundancy management (including Built In Test) design, development analysis and test hardware and software design, development, integration and test; control theory development, and control law design and analysis; flight control simulations; flight control computer hardware in the loop test station development; and executing the role of flight control system software support activity. Technology responsibility spans all aspects of RDT&E including basic research, exploratory, and advanced development, all phases of acquisition support from concept exploration through engineering and manufacturing development, and operations and support, and system upgrades. The work is directly supported by real-time piloted flight simulation, hardware in-the-loop simulation and testing, in-flight research, and full-scale flight test. While test planning and execution may be accomplished by other competencies, Flight Control personnel provide direction and focus for test efforts and incorporate the results into specific analyses.

STRUCTURES (4.3.3/433000_) - Consists of the engineering activity associated with the basic airframe structure and the lifetime structural integrity and durability of the airframe and rotary wing dynamic components. Provides the basis for specifying the design, testing, validation, and certification of the life of airframe/rotary wing structural components. It provides policies and procedures for parts life determination and extensions. It provides processes through which we examine, measure, assess, and track the structural integrity and durability

of the vehicle. This level 3 organization is concerned with static and dynamic loads, flutter, crack initiation and growth, severity of use, fatigue tracking, and launch and recovery loads.

TACTICAL A/C STRENGTH (4.3.3.1/433100_) - Consists of the engineering activity associated with the structural integrity of the basic airframe from design, development, and acquisition through in service engineering. Provides the basis for specifying the design, testing, validation, and certification of the airframe. Provides the policies, procedures, and engineering processes for stress analysis, fatigue analysis, fracture mechanics analysis, and static and fatigue laboratory testing for certification of airframe structural integrity.

PATROL/SUPPORT/ROTARY WING A/C STRENGTH (4.3.3.2/433200_) - Consists of the engineering activity associated with the structural integrity of the basic airframe and rotary wing dynamic components from design, development, and acquisition through in-service engineering. Provides the basis for specifying the design, testing, validation, and certification of the airframe and rotary wing dynamic components. Provides the policies, procedures, and engineering processes for stress analysis, fatigue analysis, fracture mechanics analysis, and static and fatigue laboratory testing for certification of airframe structural integrity.

LOADS AND DYNAMICS (4.3.3.3/433300_) - Consists of the engineering efforts which establish technical policy and criteria to ensure structural and material integrity for the service life of Naval Air weapon systems. Responsible for the adequacy (criteria/requirements) and accuracy of flight and ground loads used in the design of Naval aircraft. Provides the laboratory testing and aircraft operation camera filming which generate the data that is analyzed in support of structural criteria, requirements, and technical recommendations. They are responsible for analyzing the rigidity, vibration, and dynamic response characteristics and performance, structural integrity, maintainability, and survivability from initial system conception until retirement of the aircraft from active service.

AIRCRAFT STRUCTURAL LIFE SURVEILLANCE (4.3.3.4/433400_) - Consists of the engineering activity associated with the lifetime structural durability of the airframe as well as rotary wing dynamic components. Provides the policies, procedures, and engineering processes through which we continually appraise and track the fatigue effects on the aircraft structure, assess the

remaining structural life of aircraft, and establish the engineering nature of structural changes necessary to extend aircraft service life to meet OPNAV planned service usage.

MATERIALS (4.3.4/434000_) - Encompasses the engineering activity necessary to provide full life cycle materials and characterization efforts. Serves other level 1 and 2 organizations, which include Propulsion, Avionics, Crew Systems, Aircraft Launch and Recovery Equipment, Support Equipment and Weapons, Logistics, and Industrial Operations. Direction and guidance are provided to ensure that systems incorporate the best combination of materials engineering principles. Provides RDT&E, engineering, analyses, application studies, and testing necessary for specifying the design, validation, and certification of materials on assigned systems.

MATERIALS PROTECTION (4.3.4.1/434100_) - Involves the conception, development, and application of corrosion/wear science and engineering principals in support of TEAM products over their full life cycle. This level 4 organization involves operational/industrial chemicals (cleaners, degreasers, etc.) and both organic and inorganic coatings and processes (e.g. paint, pre-treatment, plating, etc.). It also involves the analysis and study of the basic electro-chemical, chemical, mechanical processes and mechanisms involved in the corrosion, wear, and associated damage of materials. This level 4 organization includes RDT&E, acquisition, and In-Service Support (ISS) actions. Responsible for establishing policies and procedures governing materials protection practices, as well as defining and adopting standardized performance based requirements for corrosion/wear/damage prevention and control. Responsible for guiding the development of materials protection practices, as well as identifying mechanisms, causes, and effects. Responsible for coordinating and evaluating data, developing specifications, standards, and requirements, developing corrosion/wear prevention and control practice selection criteria, and authorizing the utilization of material protection practices for acquisition and ISS. Material protection methods are evaluated and selected based upon material characteristics, galvanic combinations, surface treatment, cleaning, coatings, and maintenance practice. Where necessary, will institute enterprise and manufacturing technology programs utilizing government and contractor laboratories and the National Centers and implement the results of the efforts as appropriate to support TEAM products.

METALS AND CERAMICS (4.3.4.2/434200_) - This level 4 organization involves the conception, development, and application

of metallurgical and ceramic science and engineering principles to the life cycle support of TEAM products through IPTs, EDTs, and ETs. Includes RDT&E, acquisition, and In-Service Support (ISS) actions. Responsible for establishing policies and procedures governing metallics and ceramics utilization as well as defining and adopting standardized performance based requirements for metallic and ceramic materials and processes. Responsible for guiding the development and characterization of metals and ceramics and their processes. Also responsible for coordinating and evaluating data, developing specifications, standards and requirements, developing selection criteria, and authorizing the final selection of metals and ceramics and their processes for acquisition and ISS. Critical path networking, trade studies, lessons learned, and quantitative risk analysis tools are employed to establish relationships between the metals and ceramics evaluation process and other critical program objectives of cost, weight, schedule, and performance. Metals and ceramics are selected for low risk transition to appropriate platforms based on, as a minimum, statistically significant allowables testing, and maturity of manufacturing technology, manufacturing process control, and in-service reparability. Provides evaluation and consultation in support of weapon system maintenance by developing repairs, coordinating engineering investigations, and exercising technical control over metallurgical and ceramic processes. Where necessary, will institute enterprise and manufacturing technology programs utilizing government and contractor laboratories and the National Centers and implement the results of the efforts as appropriate to support TEAM products.

POLYMERS/COMPOSITES (4.3.4.3/434300_) - Involves the conception, development, and application of polymers/composites science and engineering principles to the life cycle support of Team products through IPTs, EDTs, and ETs. Includes RDT&E, acquisition, and In-Service Support (ISS) actions. Responsible for establishing policies and procedures governing polymers/composites utilization, as well as defining and adopting standardized performance based requirements for polymer/composite materials and processes. Responsible for guiding the development and characterization of polymers/composites and their processes. Such polymeric items are either elastomeric in nature (e.g., fuel cells, life rafts, o-rings, hoses, seals) or plastic in nature (e.g., windows, canopies, instrument panels). This level 4 organization also includes structural plastics and several nonaligned processes (e.g., sealants, organic coatings, and adhesives). Responsible for coordinating and evaluating data, developing specifications, standards, and requirements, developing

selection criteria, and authorizing the final selection of polymers/composites, and their processes for acquisition and ISS. Critical path networking, trade studies, lessons learned, and quantitative risk analysis tools are employed to establish relationships between the polymers/composites evaluation process and other critical program objectives of cost, weight, schedule, and performance. Polymers/composites are selected for low risk transition to appropriate platforms based on, as a minimum, statistically significant allowables testing, maturity of manufacturing technology, manufacturing process control, and in service reparability. Where necessary, the polymers/composites competency will institute enterprise and manufacturing technology programs utilizing government and contractor laboratories and the National Centers and implement the results of the efforts as appropriate to support Team products.

SUBSYSTEMS (4.3.5/435000_) - Provides for the full life cycle, engineering efforts associated with the entire air vehicle installed subsystems. Subsystems include mechanical systems such as fasteners, landing gear, wheels, tires, brakes, cargo handling, slings, hoists, and air drop stabilization and deceleration devices. Also included are hydraulic pumps, lines, control valves and connectors, fuel management systems, internal and external fuel tanks, and air refueling devices, stores, and equipment. Other subsystems include fire protection, detection, and suppression systems and environmental control systems.

THERMAL MANAGEMENT (4.3.5.1/435100_) - Responsible for the design, development, demonstration, and maintenance of all aircraft ECS, airframe ice protection, fire protection, and overheat detection systems throughout their entire life cycles. The ECS portion encompasses temperature and moisture control and ventilation and pressurization of the aircraft crew, avionics, and cargo compartments. Thermal management, power requirements, CBR filtration (when integrated in the ECS), and acoustic insulation are also responsibilities. Ice protection consists of all aircraft ice protection with the exception of the engine components. The fire protection portions oversee the development, demonstration, and maintenance of all fire protection system and overheat detection requirements from aircraft level system integration down to material aspects of component piece parts. This level 4 organization is concerned with optical and thermal sensors, fire and explosion suppression equipment, fire containment materials, and overall aircraft system design for fire prevention. Analysis of numerous fuel, vent, hydraulic, environmental control, structural and electrical system designs, as well as their installations, is conducted to insure

fire prevention concepts are integral to the system design process and to develop effective fire suppression systems where fires are likely. These analyses include evaluating thermal paths, potential sources for flammables and ignition sources, as well as airflow characteristics and fire suppressant quantities. Responsible for developing new technologies for its assigned technical areas. Oversees all aspects of design demonstration from component qualification to system level flight demonstration. Following initial system deployment, provides specialized systems expertise and to obtain lessons learned from the fielded hardware.

HYDRAULICS/PNEUMATICS/LANDING GEAR (4.3.5.2/435200_)-

Involves the development, demonstration, and maintenance of all hydraulic/pneumatic/landing gear system design requirements from aircraft level system integration down to material aspects of component piece parts. Concerned with fluid power generation, distribution, control, and utilization in various aircraft functions. Analysis of fluid power, materials, mechanical efficiency, structural sufficiency, cost, weight, survivability, reliability, and maintainability are all considered in the development of these systems through all program phases. Responsible for developing new technologies for hydraulic/pneumatic systems. Oversees design, development, demonstration, and maintenance of all landing gear systems and requirements from aircraft level down to isolated piece parts. The level 4 organization includes: landing gear extension, retraction and locking systems; struts, shock absorbers and braces; braking and anti-skid control systems; wheels, tires and brakes; steering and shimmy devices; carrier launch and recovery systems; and landing gear door mechanisms. Ensures that landing gear systems meet all aircraft and operational requirements for takeoff and landing performance, ground handling, carrier suitability, reliability, maintainability, safety, production, quality, and cost during all stages of the aircraft cycle. Responsible for developing new technologies for landing gear systems. Oversees all aspects of design demonstration from component qualification to system level flight-testing. Following system deployment, interfaces to provide specialized hydraulic/pneumatic/landing gear systems expertise and to obtain lessons learned from the fielded hardware.

FUEL CONTAINMENT (4.3.5.3/435300_) - Involves the development, demonstration, and maintenance of all internal and external fuel tankage and fuel/vent line installation requirements from aircraft level system integration down to material aspects of component piece parts. Concerned with fuel bladders, integral fuel tanks and sealing concepts, fuel and vent line installations, and

external fuel tanks of numerous varieties. Analysis of numerous fuel and vent system integration issues, fuel transfer and vent pressures, fuel temperatures, material compatibility, structural sufficiency, fuel control, cost, weight, survivability, reliability, and maintainability are all considered in the development of these systems through all program phases. Oversees the development, demonstration, and maintenance of all aerial refueling tanker and receiver equipment requirements from aircraft level system integration down to material aspects of component piece parts. Concerned with fuel, hydraulic, electrical, mechanical, aerodynamic, and structural systems requirements, as well as aircraft performance and handling characteristics, as they pertain to tanker/receiver rendezvous, engagement, fuel transfer, and disengagement. Provides systems engineering function, integrating these systems such that the greatest level of compatibility between receivers and tankers is achieved including DoD and Allied aircraft systems. Evaluates and establishes operational limitations based on the compatibility between DoD assets and with analysis of numerous fuel and vent system integration issues, structural sufficiency, hydraulic power, electronic control, cost, weight, survivability, reliability, and maintainability are all considered in the development of these systems through all program phases. Responsible for developing new technologies for fuel containment and aerial refueling systems. Oversees all aspects of design demonstration from component qualification to system level flight demonstration. Following initial system deployment, provides specialized aerial refueling systems and fuel containment expertise and to obtain lessons learned from the fielded hardware.

MECHANICAL SYSTEMS (4.3.5.4/435400_) - Provides engineering consultation to all programs concerning mechanical hardware such as fasteners, hinges, bearings, canopy systems, actuation systems, and cargo handling systems. In the mechanical hardware area, provides a framework for developing solutions to weapon system fastener component performance deficiencies by directing science and technology efforts. Additionally, provides engineering requirements and technical positions to industry and outside agencies, which participate in the manufacture and procurement of the many thousands of fasteners and hardware components used in the production and support of naval aviation systems. In the area of canopy systems, oversees design, development, demonstration, and maintenance of all canopy and transparency systems and requirements from aircraft level down to component piece parts. Covers canopy frames and windshield aft

arch and frame designs for bird strike resistance. Ensures that canopy systems meet all aircraft and operational requirements for transparency optics, including, but not limited to transmissivity, angular deviation, binocular disparity, distortion, multiple imaging and lateral displacement, reliability, maintainability, safety, production, quality, and cost. In the area of mechanical actuation, oversees design, development, demonstration, and maintenance of all mechanical actuation systems and requirements from aircraft level down to piece parts. Includes wingfold systems, bladefold systems, boarding ladder release and stowage, aircraft tailfold, and their respective indication systems. Ensures that mechanical actuation systems meet all aircraft and operational requirements for fold and extend times, ground handling, carrier suitability, reliability, maintainability, safety, production, quality, and cost. In the cargo handling area, oversees design, development, demonstration, and maintenance of all cargo handling systems and requirements from aircraft level down to component parts. Covers internal cargo handling equipment such as ramp actuation, cargo loading, tie down fittings, cargo winches, and cable pulleys, with special operation requirements for split ramp designs, fast rope designs, and rescue hoists. Also included is external cargo handling equipment such as auto-jettison equipment, cargo hook design, aircraft internal spacing, hook pivot clearances, and selection of Interface Cargo Equipment. Ensures that cargo handling systems meet all aircraft and operational requirements for flight and ground operations, load configurations, hook-up configurations, hard point integrity, reliability, maintainability, safety, production, quality, and cost. The mission of this level 4 organization is to bring to bear on the aircraft procurement process knowledge of discrete component performance, state-of-the-art component design, and lessons learned from fielded aircraft systems in order to reduce cycle cost of emerging programs and to deal with the problems and deficiencies encountered in the support of mature platforms. Oversees all aspects of hardware design development and systems integration from component qualification to prototype flight demonstration. Responsible for developing new technologies in its assigned technical area. Following initial system deployment, is an interface to provide expert mechanical systems consultation and to obtain lessons learned from the fielded hardware.

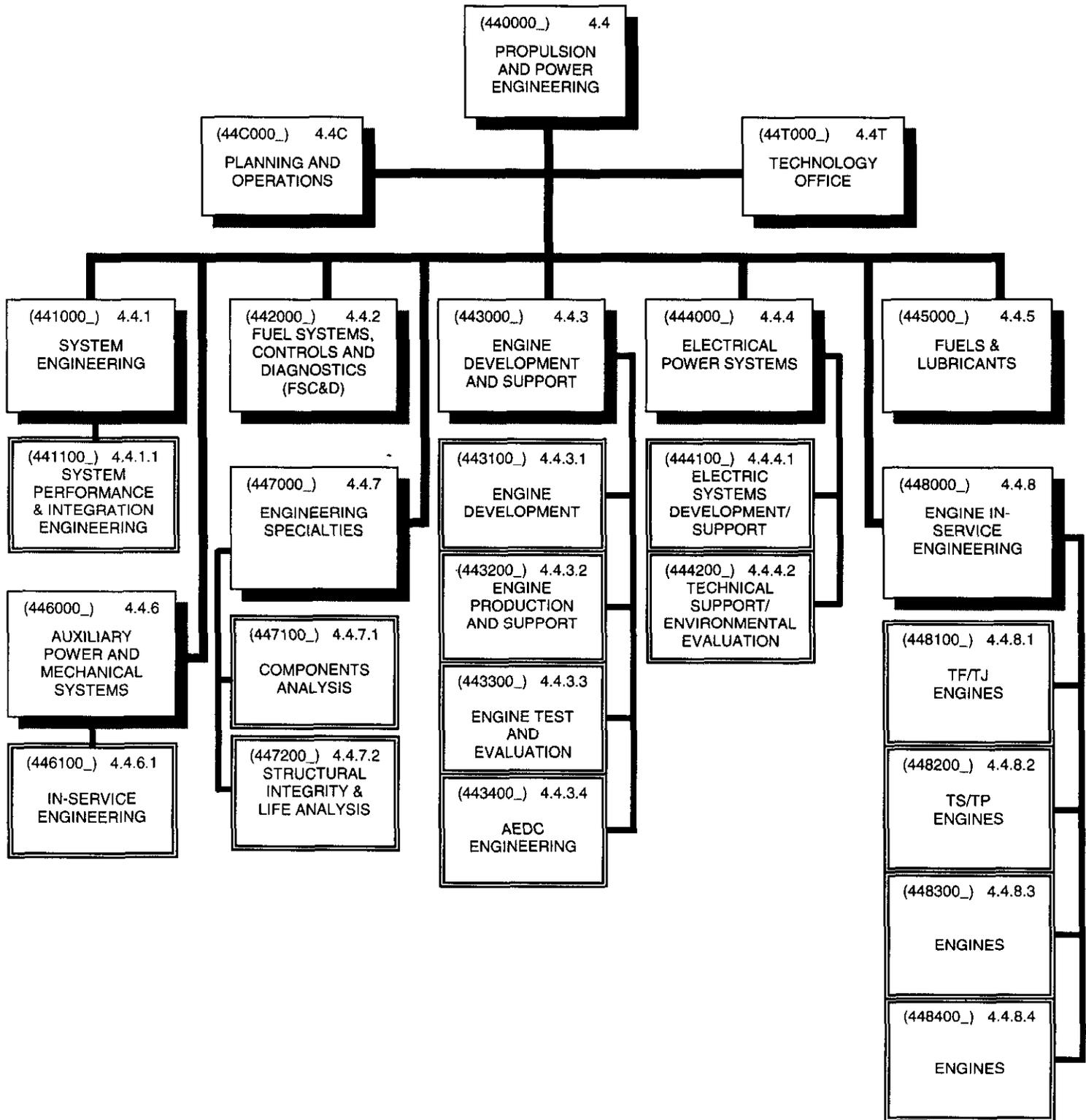
STORE SUSPENSION (4.3.5.5/435500_) - Involves the development, demonstration, and maintenance of all store suspension racks and launchers throughout the entire life cycle. This level 4 organization encompasses the evaluation and analysis of the mechanical, structural, electrical, and aerodynamic

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engineering design and manufacturing issues as they pertain to the integration into a platform. Oversees the entire store suspension device as a system, as well as the contribution individual components have on the end product. Responsible for the development of new technologies and the oversight of all aspects of design and demonstration from component qualification to system flight demonstrations. Provides the engineering support to maintain recurring production acquisitions. For fielded systems, is an interface to provide specialized expertise and obtain lessons learned from fielded systems.

PROPULSION AND POWER ENGINEERING
4.4/440000_



PROPULSION AND POWER ENGINEERING (4.4/440000_) - Supports IPTs and product support functions in technology acquisition, system acquisition, and product support for Naval aviation propulsion and power systems. Responsible for the definition of technical requirements, performance monitoring, engineering investigation and evaluation, propulsion and power system integration, in-service engineering and technology planning, development and transition of propulsion and power (including all aircraft wiring and power distribution) systems.

PLANNING AND OPERATIONS (4.4C/44C000_) - Responsible for the workload and financial planning, budgeting, resource management, and tracking of the variety of funding available from direct sponsors, for component improvement programs, FMS, etc. Provides safety and security and administrative support, program management and control, policy formulation and oversight, and functional leadership coordination for (a) the Aircraft Engine Component Improvement Program (CIP), (b) the Power Plant Change (PPC) program, and (c) propulsion and power system acquisition and product support management.

TECHNOLOGY OFFICE (4.4T/44T000_) - Responsible for the overall planning, establishment of processes, management, and coordination of the Propulsion and Power S&T investment strategy and the interservice reliance and government/industry activities. Interfaces with OSD, ONR, government and industry IHPTET managers, PEOs/PMAAs, and the fleet to maximize transition of technology into operating systems. Provides propulsion system technical requirement definition, evaluation/source selection, performance monitoring, technology planning, development and transition of technology.

SYSTEM ENGINEERING (4.4.1/441000_) - Responsible for each currently active aircraft program propulsion system. Provides the requirements definition/trade-offs, system evaluations/source selections, performance monitoring, propulsion system integration, and program team management.

SYSTEM PERFORMANCE AND INTEGRATION ENGINEERING (4.4.1.1/441100_) - Provides engineering support relative to the installation, integration, performance and operability of air breathing propulsion and ancillary aircraft power systems. Defines technical requirements, limits and operational restrictions for system design, performance and airworthiness. Participates in the development of system concepts, evaluations, and source selections. Participates with private industry, academia, and other government agencies to continually develop, improve, and transition analytical tools and processes needed to efficiently investigate and optimize integrated system designs.

FUEL SYSTEMS, CONTROLS AND DIAGNOSTICS (FSC&D) (4.4.2/442000_) - Responsible for the technical requirements definition, performance monitoring, engineering investigation and evaluations, test and evaluation, control system integration, in-service engineering, and technology transition.

ENGINE DEVELOPMENT AND SUPPORT (4.4.3/443000_) - Includes Engineering Specialties, Engine Development and Support, Test Engineering, and In-Service Engineering competencies. The Engineering Specialties area provides specific engineering specialties needed to adequately evaluate designs and design problems as well as translate operational needs into technical requirements and technology development plans. Engine Development and Support provides the processes necessary for full life cycle engineering for airbreathing engines. Test Engineering provides processes and facilities for planning and management of engine testing. In-Service Engineering provides the processes for direct engineering interface with users, maintainers, and in-service hardware. Responsibilities include the definition of technical requirements, monitoring performance, engineering investigations/evaluations, test and evaluation, engine/aircraft integration, in-service engineering, and technology transition.

ENGINE DEVELOPMENT (4.4.3.1/443100_) - Provides specific air breathing engineering specialties needed to adequately evaluate designs and design problems as well as translate operational needs into technical requirements and technology development plans. Responsible for establishing processes to develop and certify engineers expert in specification development, reliability and maintainability, life management, component development, etc. of air breathing engines; allocating the specific needs of the competency; coordinating with managers of similar technical areas from other government agencies and industry; and continuously improving the processes and quality of the competency personnel. The level 4 organization personnel combine system engineering and technical specialist roles.

ENGINE PRODUCTION AND SUPPORT (4.4.3.2/443200_) - Responsible for the people and processes necessary for full life cycle systems engineering management of engine programs. This involves all technical efforts associated with the development, postproduction and in-service engineering of the gas turbine or reciprocating engines. Translates operational needs into technical requirements. Integrates PPE design and development parameters to ensure compatibility of physical and functional interfaces and to

optimize system effectiveness. Selects best value design options, evaluates contractors' performance to requirements. Establishes system-focused corrective action requirements.

ENGINE TEST AND EVALUATION (4.4.3.3/443300_) - Provides the management and technical cognizance for air-breathing engine test and evaluation at for all facilities including: Arnold Engineering Development Center, Trenton, New Jersey; Lakehurst, New Jersey; and Patuxent River, Maryland. Manages and coordinates the use of the facilities at the various on-site locations, supervises on-site personnel, and ensures proper application of PPE policies and processes.

AEDC ENGINEERING (4.4.3.4/443400_) - Provides the people and processes necessary for management of test and evaluation of air breathing turbine engines. Individuals are assigned to the DOD test site at the Arnold Engineering Development Center, Arnold AFB Tennessee. Occupying positions in turbine engine test, facility maintenance, and test infrastructure investment organizations, these individuals serve as integral part of the joint USAF/Navy management contingent for testing by all three military services and other government activities. Serves as the activity interface with test customers, performing financial and strategic planning and management, and assessing contractor performance of the test mission.

ELECTRICAL POWER SYSTEMS (4.4.4/444000_) - Provides for full life cycle system engineering management of electrical power systems as well as needed engineering specialties. Responsible for technical requirements definition, performance monitoring, engineering investigation and evaluation, test and evaluation, electric power integration, in-service engineering, and technology transition. Support is also provided for science and technology development, and full life cycle system engineering management of all aircraft wiring, connectors, and electrical distribution systems and components including circuit breaker, contractors, and relay panels.

ELECTRIC SYSTEMS DEVELOPMENT/SUPPORT (4.4.4.1/444100_) - Provides the people and processes needed for full cycle system engineering management of electrical power systems for the IPTs as well as needed engineering specialties.

TECHNICAL SUPPORT/ENVIRONMENTAL EVALUATION (4.4.4.2/444200_) - Provides the people and processes needed for management of technical support and evaluation of electrical power

systems, test engineering specialties and environmental test facilities. Responsible for establishing processes to develop and certify engineers expert in the technical support and evaluation of electrical power systems; allocating the specific needs of the competency; coordinating with managers of similar technical areas from other government agencies and industry; developing and coordinating test facility resources, needs and schedules; and continuously improving the processes and quality of the competency personnel.

FUELS AND LUBRICANTS (4.4.5/445000_) - Provides resources to support aviation fuel and lubricant product development and fleet use. The work is generally in support of the general needs of Naval aviation. Responsibilities include the definition of technical requirements, performance monitoring, engineering investigation and evaluation, test and evaluation, in-service engineering, and technology transition.

AUXILIARY POWER AND MECHANICAL SYSTEMS (4.4.6/446000_) - Provides the resources to support product development and fleet use. The work is generally in support of the general needs of Naval aviation and supports IPTs/EDTs/ETs. Responsibilities include the definition of technical requirements, performance monitoring, engineering investigations and evaluations, mechanical systems integration, in-service engineering, and technology transition.

IN-SERVICE ENGINEERING (4.4.6.1/446100_) - Consists of the engineering and technical services which integrate and support the completion of aircraft Auxiliary Power and Mechanical System equipment development and enhance their fleet introduction, operation, and maintenance. Responsible for ensuring that assigned equipment can be supported in service as required, to maintain operational systems effectiveness. Conducts engineering studies related to fleet reported discrepancies for Auxiliary Power and Mechanical Systems. Establishes/adjusts preventive maintenance tasks/intervals, fields Fleet inquiries, performs as the technical expert for In-Service Engineering support, generates and issue service bulletins and maintains technical manuals. Initiates design changes to correct Fleet-reported discrepancies. Provides engineering support services to organic and commercial depot activities for maintenance practices, processes, and procedures.

ENGINEERING SPECIALTIES (4.4.7/447000_) - Provides the resources to support product development and fleet use in the areas of components, life analysis, structural integrity, and acquisition requirements. The work is generally in support of the general needs of Naval aviation and supports IPTs/EDTs/ETs.

COMPONENTS ANALYSIS (4.4.7.1/447100_) - Provides specific air breathing engineering specialties needed to adequately evaluate designs and design problems as well as translate operational needs into technical requirements and technology development plans. The personnel in this level 4 organization combine system engineering and technical specialist roles.

STRUCTURAL INTEGRITY AND LIFE ANALYSIS (4.4.7.2/447200_) - Responsible for establishing processes to develop and certify engineers expert in specification development, reliability and maintainability, life management, component development, etc. or air breathing engines; allocating the specific needs of the competency; coordinating with managers of similar technical areas from other government agencies and industry; and continuously improving the processes and quality of the competency personnel.

ENGINE IN-SERVICE ENGINEERING (4.4.8/448000_) - Provides engineering interface with users, and maintenance and in-service hardware. Responsible for establishing processes to develop and certify engineers expert in in-service engineering; allocating the specific needs of the competency; coordinating with managers of similar technical areas from other government agencies and industry; and continuously improving the processes and quality of the personnel.

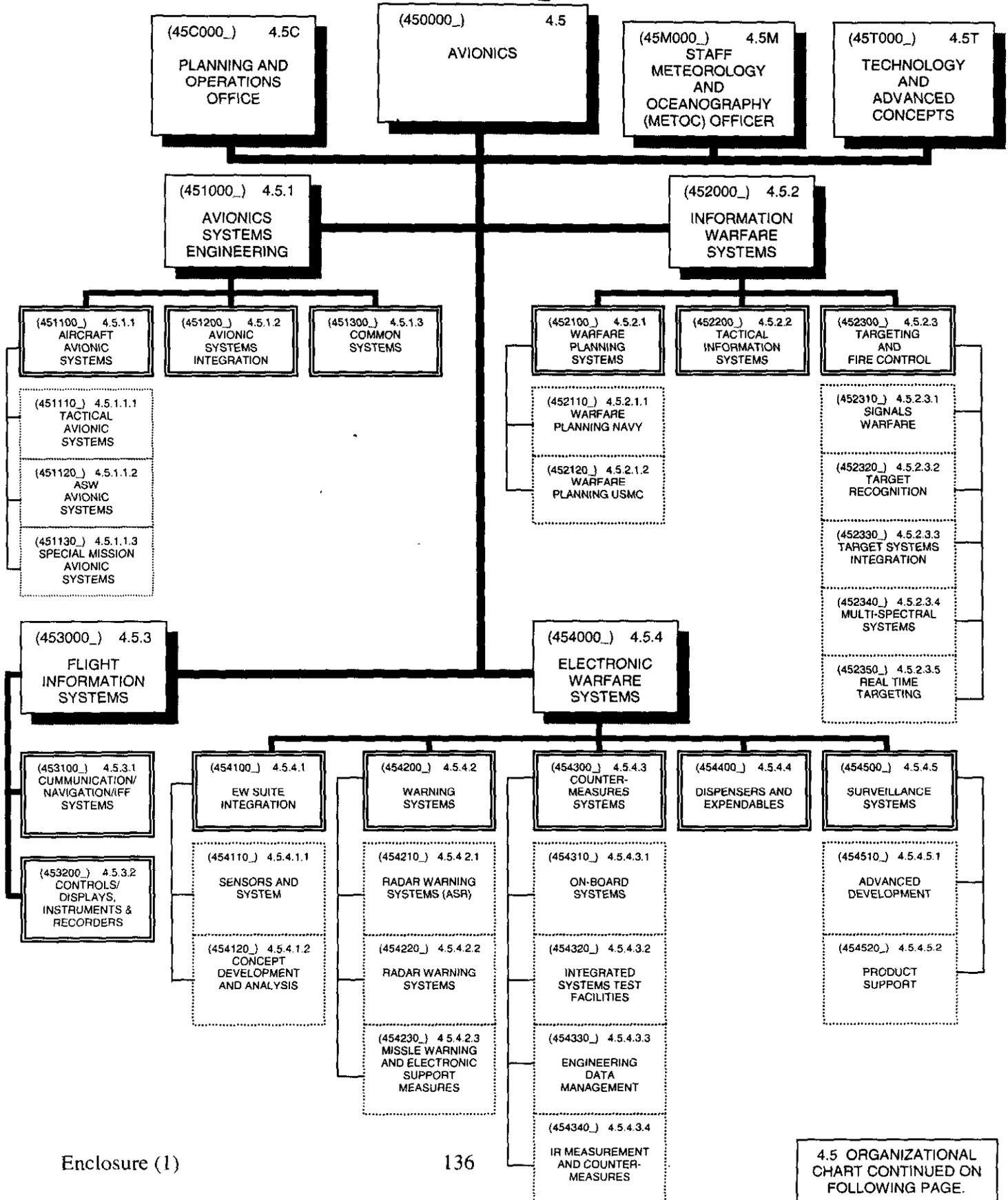
TF/TJ ENGINES (4.4.8.1/448100_) - Provides worldwide in-service engineering support, local engineering support to Naval Aviation Depot Cherry Point, and special management and engineering services for the following turbojet/ turbofan propulsion systems: F402 engine, F405 engine, and J79 engine.

TS/TP ENGINES (4.4.8.2/448200_) - Provides worldwide in-service engineering support, local engineering support to Naval Aviation Depot Cherry Point, and special management and engineering services for the following turboshaft/turboprop propulsion systems: T58 engine, T64 engine, T400 engine, T406 engine, and T700 engine.

ENGINES (4.4.8.3/448300_) - Provides worldwide in-service engineering support, local engineering support to Naval Aviation Depot Jacksonville, and special management and engineering services for the following propulsion systems: F404 engine, F414 engine, F1D2 engine (depot support only), J85 engine, TF41 engine, and T56 engine.

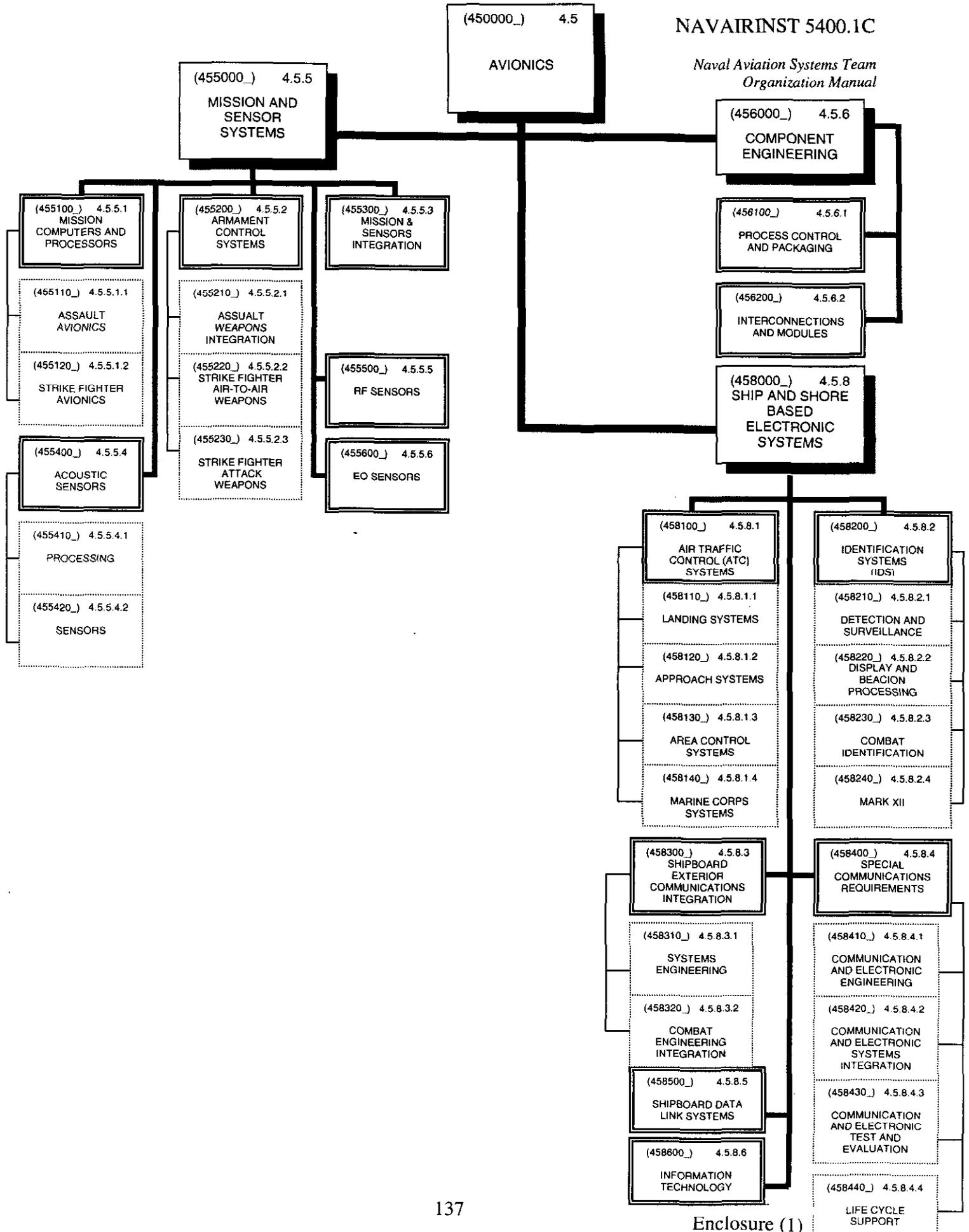
ENGINES (4.4.8.4/448400_) - Provides worldwide in-service engineering support, local engineering support to Naval Aviation Depot Jacksonville, and special management and engineering services for the following propulsion systems: J52 engine, TF30 engine, F110 engine, CFM56 engine, and TF34 engine. Provides local engineering support to the Naval Aviation Depot North Island for the LM2500 engine.

**AVIONICS
4.5/450000_**



NAVAIRINST 5400.1C

Naval Aviation Systems Team
Organization Manual



AVIONICS (4.5/450000_) - Responsible for providing all resources to accomplish the development, acquisition, and support all flight-essential and mission-essential aircraft electronic systems and software. This includes warfare planning systems and aircraft software loading devices, but excludes flight control electronics. Also includes the resources necessary to support IPTs, EDTs, and ETs in technology, systems development, and In-Service Engineering (ISE). Systems engineering and integration, design, analysis, test and evaluation, and ISE processes are applied to: sensors, communications, navigation, processors, controls, displays, software, instruments, antennas, armament control, electronic warfare systems, interface devices, electronic data buses, mission planning, support systems and devices, and aviation-related ship and shore-based electronic systems.

PLANNING AND OPERATIONS OFFICE (4.5C/45C000_) - The resources necessary to provide business/financial planning and management, manpower resource management and allocation, and general administrative support for Avionics. This includes: coordinating and administering all financial planning and budgeting activities; interpreting programming and budgeting guidance and constraints established by higher authority and recommending objectives and programming actions; providing guidance for position management and classification issues, organizational design, recruitment, manpower resource analysis, performance evaluations, award justifications and employee development; providing administrative support services including, facilities management, space management, guidance on timekeeping procedures, travel administration, explaining security requirements, etc. Provides overall level 2 organization acquisition strategy, contract coordination, procurement package development, and task order processing. Also serves as the single point of contact for the NAWCWPNS command on BRAC implementation issues, as well as initiatives such as Vision 21.

STAFF METEOROLOGY AND OCEANOGRAPHY (METOC) OFFICER (4.5M/45M000_) - Provides technical meteorological, oceanographic, and Global Geospatial Information and Services (GGI&S) support. Analyzes combat and cost effectiveness of modifications to existing systems and proposed new systems with respect to the environment. This includes development and implementation of appropriate operational research, systems analysis and engineering tools, and simulations of candidate systems. Also responsible for the liaison with the National Imagery and Mapping Agency (NIMA) for all TEAM programs.

TECHNOLOGY AND ADVANCED CONCEPTS (4.5T/45T000_) - Provides overall leadership for S&T programs, S&T planning, and direct support for the NAVSTO.

AVIONICS SYSTEMS ENGINEERING (4.5.1/451000_) - Transforms operational needs into system descriptions, integrates related technical engineering specialties, and coordinates the efforts of the other engineering disciplines. This element includes the leadership members of the Avionics System Engineering Team (ASET).

AIRCRAFT AVIONIC SYSTEMS (4.5.1.1/451100_) - Provides the avionic system engineering functions associated with the avionic system design, development, manufacture, update, and test of avionic systems from inception through disposal. It includes the engineering processes that translate a set of needs/objectives to design and functional requirements, and in turn establishes the set of system products that satisfy the objectives. It also involves the functions associated with coordinating with the system engineers for the complete aircraft/weapon system to ensure successful integration of the avionics systems.

TACTICAL AVIONIC SYSTEMS (4.5.1.1.1/451110_) - Performs the avionic system engineering functions on tactical aircraft platforms.

ASW AVIONIC SYSTEMS (4.5.1.1.2/451120_) - Performs the avionic system engineering functions on ASW aircraft platforms.

SPECIAL MISSION AVIONIC SYSTEMS (4.5.1.1.3/451130_) - Performs the avionic system engineering functions on special mission aircraft platforms.

AVIONIC SYSTEMS INTEGRATION (4.5.1.2/451200_) - Provides the avionic system integration functions associated with the avionic system design, development, manufacture, update, and test of avionic systems from inception through disposal. It includes the engineering processes that translate a set of needs/objectives to design and functional requirements, and in turn establishes the set of system products that satisfy the objectives. It also involves the functions associated with coordinating with the system engineers for the complete aircraft/weapon system to ensure successful integration of the avionics systems.

COMMON SYSTEMS (4.5.1.3/451300_) - Provides the avionic system engineering functions associated with the avionic system design, development, manufacture, update, and test of avionic systems from inception through disposal. It includes the engineering processes that translate a set of needs/objectives to

design and functional requirements, and in turn establishes the set of system products that satisfy the objectives.

INFORMATION WARFARE SYSTEMS (4.5.2/452000_) - Provides support systems, subsystems, and devices for tactical information management, mission planning, data transfer, retrieval, and recording, and tactical decision making, including mission planning systems, intelligence analysis, processing and evaluation systems, mission data loading devices, mission data recording systems, and associated identification systems.

WARFARE PLANNING SYSTEMS (4.5.2.1/452100_) - Provides support systems, subsystems, and devices necessary to support battle planning at the force and unit levels. Includes warfare and mission planning systems, and intelligence analysis, processing and evaluation systems.

WARFARE PLANNING NAVY (4.5.2.1.1/452110_) - Provides project management, system development, and system engineering support for Naval Air Systems Command R&D and O&M efforts.

WARFARE PLANNING USMC (4.5.2.1.2/452120_) - Provides project management, system development, and system engineering support for Marine Corps Systems Command R&D and O&M efforts.

TACTICAL INFORMATION SYSTEMS (4.5.2.2/452200_) - Supports the fusion of intelligence information into a coherent command picture for the warrior. Includes intelligence analysis, processing and evaluation systems, imagery compression and dissemination techniques, and situational awareness and assessment systems.

TARGETING AND FIRE CONTROL (4.5.2.3/452300_) - Supports external sponsors responsible for exploratory development and technology demonstrations of advanced sensors and systems for tactical aircraft, missile seekers, ballistic missile defense, and mine detection. Performs development of advanced techniques for optimizing the performance of existing and future air-to-air and air-to-ground targeting and fire control systems. Responsible for the development of automatic solutions to target recognition problems for airborne weapon systems.

SIGNALS WARFARE (4.5.2.3.1/452310_) - The development, test and evaluation, and life-cycle support of advanced Radio Frequency (RF) systems; the modeling and measurement of RF signatures; and antenna measurement. Facilities include: secure signals exploitation development and test laboratories, indoor antenna measurement ranges, a phased array development laboratory, a signature modeling laboratory, and a multi-octave phased array suitable for laboratory or mountain-top investigations.

TARGET RECOGNITION (4.5.2.3.2/452320_) - This level 5 organization is involved in all aspects of Automatic Target Recognition (ATR) system development. It is also involved in related technology developments such as automatic battle damage assessment and synthetic signature generation. Development efforts include concept exploration, target signature data collection and/or generation, concept development and feasibility demonstrations, and real-time ATR system development and implementation. Some typical program areas include: automatic ISAR ship and land target classification, automatic range-only-radar ship classification, automatic SAR ship classification, automatic SAR land target classification, automatic LADAR ground target classification, and automatic battle damage assessment.

TARGET SYSTEMS INTEGRATION (4.5.2.3.3/452330_) - Responsible for the development of advanced techniques for optimizing the performance of existing and future air-to-air and air-to-ground targeting and fire control systems. Systems included are platform organic and third party sensors and the man-machine interface with the operator.

MULTI-SPECTRAL SYSTEMS (4.5.2.3.4/452340_) - Involved in all aspects of passive and active infrared systems. This includes hardware and software development, analytical studies and modeling, and test and evaluation. Some typical program areas include FLIR's,IRST's, and multi/hyperspectral IR systems, laser rangefinders, laser radars (imaging and non-imaging), and laser combat ID systems (cooperative and non-cooperative).

REAL TIME TARGETING (4.5.2.3.5/452350_) - Develops and demonstrates the utility of Real Time Targeting (RTT) and Real Time Information in the Cockpit (RTIC) technologies. A primary objective is to provide the

foundation for RTT technology transition as well as a testbed environment for off-board targeting, precision targeting, and dynamic re-targeting programs and initiatives.

FLIGHT INFORMATION SYSTEMS (4.5.3/453000_) - Provides primary electronic aircraft subsystems to enable safe flight. These subsystems have traditionally been identified as "core" avionics: communications, navigation, IFF, instruments, displays, and flight data recorders. These avionics subsystems provide the information that enables the crew to fly the aircraft safely and interface with one another and the outside world.

COMMUNICATION/NAVIGATION/IFF SYSTEMS (4.5.3.1/453100_) - Provides Communication, Navigation, and IFF Systems and components enabling clear/secure internal and external voice communications. It also includes systems/ components which provide transmission and receipt of digital data required by the "Information Warfare System" to identify and locate targets. Provides Navigation Systems and components enabling safe aircraft transit. It also provides aircraft position and course data to mission systems. IFF systems are used by Navy aircraft for air traffic control, aircrew, and information warfare systems to provide range, bearing, altitude, and identity. By providing air traffic control and aircrew information on other aircraft in the area, provides important safety of flight information. Communication systems components addressed include radios, data links, intercoms, AJ/LPI Appliqués, antennas, data modems, and COMSEC equipment.

CONTROLS/DISPLAYS, INSTRUMENTS AND RECORDERS (4.5.3.2/453200_) - Provides necessary aircraft/engine information to enable aircrew to safely fly the aircraft. This element provides information such as aircraft position, direction, speed, acceleration, and altitude. This element also provides temperature and time information as well as engine and fuel indications.

ELECTRONIC WARFARE SYSTEMS (4.5.4/454000_) - Provides equipment and devices which individually or in suites provide functional capabilities in the areas of support jamming, defense suppression, electronic counter and counter-counter measures, electronic support measures, self-protection, and electronic intelligence. This also includes both hardware and software for these systems, and all phases of life cycle from RDT&E through ISE.

EW SUITE INTEGRATION (4.5.4.1/454100_) - Responsible for the technical coordination of EW unique processes, platform and EW

Suite Integration, and EW Advanced Technology efforts necessary to meet customer requirements and to assure that the installed systems performance of the EW suite is optimized.

SENSORS AND SYSTEM (4.5.4.1.1/454110_) - Provides Fleet aircraft effective electro-optical (EO) (infrared, visible and ultraviolet) countermeasure systems and support the development of all types of EO systems through modeling and simulation.

CONCEPT DEVELOPMENT AND ANALYSIS (4.5.4.1.2/454120_) - Provides the resources and expertise required to design and develop advanced Electronic Warfare airborne tactical systems and subsystems for use in airborne platforms

WARNING SYSTEMS (4.5.4.2/454200_) - Provides the resources to specify, design, develop, document, integrate, and support airborne electronic warfare warning systems

RADAR WARNING SYSTEMS (ASR) (4.5.4.2.1/454210_) - Provides the resources and expertise required to design, develop, and provide in-service engineering for Electronic Warfare airborne tactical warning systems and subsystems for use in airborne platforms

RADAR WARNING SYSTEMS (4.5.4.2.2/454220_) - Provides life cycle software, system engineering, and integration support for both U.S. Navy and Foreign Military Sales tactical radar warning receivers

MISSILE WARNING AND ELECTRONIC SUPPORT MEASURES (4.5.4.2.3/454230_) - Provides the resources and expertise required to design, develop, and provides in-service engineering for Electronic Warfare airborne tactical missile warning and electronic support measures systems and subsystems for use in airborne platforms

COUNTERMEASURES SYSTEMS (4.5.4.3/454300_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne Electronic Countermeasure (ECM) systems.

ON-BOARD SYSTEMS (4.5.4.3.1/454310_) - Provides the resources and expertise required to design, develops, and

provides in-service engineering for EW tactical countermeasures systems and subsystems for use in airborne platforms.

INTEGRATED SYSTEMS TEST FACILITIES (4.5.4.3.2/454320_) - Provides well instrumented laboratory facilities and skilled staff for evaluation of active and passive Electronic Combat (EC) systems and associated embedded software.

ENGINEERING DATA MANAGEMENT (4.5.4.3.3/454330_) - Provides control and safeguarding of classified data for EW, IW, and some Targets programs. Specifically provides centralized accessioning, transmitting, and reproduction of data as well as data storage, retrieval, and destruction.

IR MEASUREMENT AND COUNTERMEASURES (4.5.4.3.4/454340_) - Performs air-to-air measurements of the infrared signatures of aircraft, missiles, and countermeasures devices and tests the countermeasures effectiveness of infrared decoys against threat missile systems.

DISPENSERS AND EXPENDABLES (4.5.4.4/454400_) - Provides the resources to specify, design, develop, document, integrate, and support airborne electronic warfare Dispensers & Expendable (D&E) Systems.

SURVEILLANCE SYSTEMS (4.5.4.5/454500_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne Electronic Warfare Surveillance (EWS) systems.

ADVANCED DEVELOPMENT (4.5.4.5.1/454510_) - Provides the resources and expertise required to design, develop, and evaluate advanced surveillance and Electronic Warfare (EW) airborne systems, subsystems, and suites for use in the EA-6B and other dedicated surveillance and EW airborne platforms

PRODUCT SUPPORT (4.5.4.5.2/454520_) - Provides the resources and expertise required to design, develop, test, and provide in-service engineering for surveillance and Electronic Warfare (EW) airborne systems and subsystems

for use in the EA-6B and other dedicated EW and surveillance airborne platforms.

MISSION AND SENSOR SYSTEMS (4.5.5/455000_) - Provides electronic subsystems required to support warfighting capabilities for ASW, ASUW, AAW, Strike, etc. including the element that provides subsystems and devices for airborne sensing, imaging, and data collection, e.g., airborne acoustic, electro-optic, magnetic, Radio Frequency (RF) and photographic sensors, and architecture formulation. This also includes both hardware and software for these systems, and all phases of life cycle from RDT&E through ISE.

MISSION COMPUTERS AND PROCESSORS (4.5.5.1/455100_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne Central Computer/Mission Computer System, including their respective operational flight programs.

ASSAULT AVIONICS (4.5.5.1.1/455110_) - Supports the AV-8B Integration Product Team. Primary functions include avionics system and sub-system engineering, hardware sub-system engineering, system integration, system testing, avionics asset configuration management, aircraft and flight clearance tracking and management.

STRIKE FIGHTER AVIONICS (4.5.5.1.2/455120_) - Supports the F/A-18 Integration Product Team. Primary functions include avionics system and sub-system engineering, system integration, and system testing for U.S. and various Foreign Military Sales customers.

ARMAMENT CONTROL SYSTEMS (4.5.5.2/455200_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne Armament Control Systems, and their respective computer programs.

ASSUALT WEAPONS INTEGRATION (4.5.5.2.1/455210_) - Provides life-cycle software and hardware subsystem engineering for the integration of weapons onto assault aircraft for the U.S. Navy and foreign customers. Required functions include: definition of requirements, preparation of test plans and schedules, coordination and execution of tests, analysis of tests and preparation of results for all three types of integration testing: laboratory, ground, and flight

STRIKE FIGHTER AIR-TO-AIR WEAPONS (4.5.5.2.2/455220_) - Provides life cycle system software and hardware engineering for the integration of weapon systems and sensor systems on all models of the F/A-18 aircraft for both the U.S. Navy and all foreign customers. Provides weapon system integration for the Air-to-Air (A/A) Gun, AIM-9 Sidewinder, AIM-7 Sparrow, AIM-120 AMRAAM, and other A/A weapons as required. Also provides sensor integration with the Multi-Source Integration (MSI) systems which provides trackfile merging of various on and off-board sensors.

STRIKE FIGHTER ATTACK WEAPONS (4.5.5.2.3/455230_) - Provides Operational Flight Program (OFP) support for the F/A-18A/B/C/D/E/F aircraft variants. This support consists of testing and validating new OFPs for Fleet issue and also analyzing problems with OFPs that are currently in Fleet use. Also supported are software/hardware investigations into other non-OFP specific weapon delivery anomalies. Required functions include definition of test requirements, preparation of test plans and schedules, coordination and execution of tests, analysis of test data and reporting of results. These functions are performed during laboratory, ground and flight-testing. Extensive coordination is also required with weapon project offices, other Navy facilities, McDonnell Douglas and other contractor agencies, and representatives of foreign customers.

MISSION AND SENSORS INTEGRATION (4.5.5.3/455300_) - Provides the resources required to specify, design, develop, document the integration of sensors and weapons into the aircraft weapon system.

ACOUSTIC SENSORS (4.5.5.4/455400_) - Provides the resources required to conduct acoustic sensor system research and to specify, design, develop, performance certify, integrate, and support airborne Acoustic Sensors

PROCESSING (4.5.5.4.1/455410_) - Researches new techniques and develops algorithms for analyzing acoustic data to improve submarine detection capability for both active and passive air ASW systems. Supports the acquisition of new ASW acoustic processor systems.

SENSORS (4.5.5.4.2/455420_) - Researches new technology and develops deployable underwater acoustic sensor systems. These sensor systems can be active or passive and either expendable (sonobuoys) or tethered (helicopter dipping arrays). Supports the acquisition and fleet introduction of new ASW acoustic sensor systems.

RF SENSORS (4.5.5.5/455500_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne RF sensors, and their respective operational flight programs.

EO SENSORS (4.5.5.6/455600_) - Provides the resources required to specify, design, develop, document, integrate, and support airborne EO sensors, and their respective operational flight programs.

COMPONENT ENGINEERING (4.5.6/456000_) - Provides engineering specialties which provide avionics modules, packaging, distribution of signals and data, and processor support for the aircraft systems. This support includes internal modules such as power supplies, wiring and connectors, electronic data buses, embedded processors and peripherals such as mounts, enclosures, and attachments.

PROCESS CONTROL AND PACKAGING (4.5.6.1/456100_) - Provides the long term modular avionics and COTS advocacy for new or retrofit applications, as well as the coordination for technical demonstrations of new and emerging capabilities. This element is also responsible for all specifications and standards that apply to naval avionics. It provides overall avionics packaging products, including enclosures for WRAs, Integrated Racks, equipment mounts, and thermal management and cooling.

INTERCONNECTIONS AND MODULES (4.5.6.2/456200_) - Includes all interconnections within the WRA. It includes internal connectors and wiring, backplanes, and fiber optics transmission media. Also includes all module development and support. It includes processors, power supplies, buses, backplanes, and interface functions such as MIL-STD-1553 interfaces, etc. This element also provides functional partitioning and application support for IPT users.

SHIP AND SHORE BASED ELECTRONIC SYSTEMS (4.5.8/458000_) - Encompasses a wide spectrum of engineering tasks and services including Air Traffic Control (ATC), surface based aircraft Identification

Systems (IDS), Shipboard Exterior Communications (EXCOM), Special Communications requirements (primarily for the Special Operations and Joint Communications), Shipboard Data Link Systems, and specialized Information Technology. Each of the individual task areas must be functionally integrated with their associated platforms to provide an effective and sustainable capability for the end user - the war fighter. Assigned Ship and Shore Based Electronic Systems engineers must be competent in, but not limited to the following:

- A sound understanding of the technology and systems engineering process as applied to various assigned platforms and subsystems;
- An understanding of the missions, culture and environment under which assigned, developed and/or deployed systems are functionally utilized;
- A detailed technical knowledge of requisite technologies; and
- A general knowledge of the acquisition, fiscal and contract management and processes.

Other functions include large scale shipboard communication integration, specialized service and systems integration(s) for the various government agencies, the development of advanced interactive electronic training manuals and unique operational computer networking services. The processes listed focus on the necessary elements comprising the Shore Based Electronic Systems engineering process and its integration with other engineering disciplines into a balanced, total Engineering Product.

AIR TRAFFIC CONTROL (ATC) SYSTEMS (4.5.8.1/458100_) -

Provides support for Navy shipboard and shorebased Air Traffic Control and Landing Systems (ATC&LS), as well as the Marine Corps Air Traffic Control and Landing System. Tests and evaluates ATC&LS equipment, provides technical and life cycle support, integrates ATC systems for new and existing requirements, develops prototype equipment modifications, and develops and deploys modernized ATC systems. Has cradle-to-grave responsibility for SPN radar systems, which support all-weather flight operations on aircraft carrier type ships. Also has cradle-to-grave responsibility for the Fleet Area Control and Surveillance Facility (FACSFAC) system, which is used to schedule and control air operations in the Navy's offshore flight test ranges and to provide support for air intercept and drug interdiction tasks by the Caribbean Regional Operations Center.

LANDING SYSTEMS (4.5.8.1.1/458110_) - Supports the Automatic Carrier Landing Systems AN/SPN-42 and AN/SPN-46. Has cradle-to-grave responsibilities for these systems including test and evaluation; in-service engineering

and software support activity functions; shipboard/shorebased equipment certification; and development/deployment of replacement modernized ALS systems.

APPROACH SYSTEMS (4.5.8.1.2/458120_) - Provides support for the SPN radars, including AN/SPN-35, AN/SPN-41, and AN/SPN-43. Responsibilities include test and evaluation; technical and logistics life cycle support; integration of systems with new or modified associated air traffic control equipment; and development of prototype follow-on equipment for modernized ATC systems.

AREA CONTROL SYSTEMS (4.5.8.1.3/458130_) - Supports Fleet Area Control and Surveillance Facility (FACSFAC) systems (AN/FYK-17B, AN/FYK-23, and CV-3682/UPX). Has cradle-to-grave responsibilities, including test and evaluation; technical and logistics life cycle support; integration/adaptation with new or modified associated equipment; and development/ deployment of modernized or improved replacement systems.

MARINE CORPS SYSTEMS (4.5.8.1.4/458140_) - Provides test, evaluation, and software support for the Marine Air Traffic Control and Landing System (MATCAL) suite of equipment (AN/TPN-22, AN/TSQ-131, AN/TPS-73), which support all-weather/night Fleet Marine air operations. The major responsibilities include providing engineering support for systems acquisition and development, conducting developmental test and evaluation, and performing Software Support Activity (SSA) functions.

IDENTIFICATION SYSTEMS (IDS) (4.5.8.2/458200_) - Provides comprehensive technology, systems integration, software support activity, and acquisition services for identification and air traffic control systems used throughout the Navy and Marine Corps at shore stations, aboard submarines, and surface combatants, as well as on Coast Guard vessels and foreign military sales combat ships. Furnishes technical support to the Navy for DOD's role in reconciling the fleet's existing systems with FAA's frequently updated automation programs. Also assists surface combatant Program Managers with integrating modern identification systems with all Combat Direction Systems, Command and Decision Systems, and Automated Tactical Data Systems.

DETECTION AND SURVEILLANCE (4.5.8.2.1/458210_) - Provides design, development, test, evaluation and technical, software and logistics support for existing and state-of-the-art AEGIS and other Combat Identification systems, including the AN/UPX-29 Central IFF System and the AN-SLQ-20 Countermeasures System.

DISPLAY AND BEACON PROCESSING (4.5.8.2.2/458220_) - Provides ship and shore-based terminal area Air Traffic Control and IFF/Radar processing systems, including all versions of the AN/TPX-42A(V) Direct Altitude and Identity Readout System.

COMBAT IDENTIFICATION (4.5.8.2.3/458230_) - Provides design, development, test, evaluation, and technical, software and logistics support for prototype, state-of-the-art cooperative and non-cooperative Combat Identification and signal processing systems. These include the AN/UPX-36 Central IFF, AN/UPX-34 Shipboard Advanced Radar Target Identification System (SARTIS), and the NATO Sea Sparrow Signal Data Processor.

MARK XII (4.5.8.2.4/458240_) - Provides design, development, test, evaluation and technical, software and logistics support for existing and state-of-the-art Mark XII Identification Friend-or-Foe systems, including the AN/UPX-27 Interrogator Set, the AN/UPX-27 replacement, and the AN/UPM-155 Radar Test Set.

SHIPBOARD EXTERIOR COMMUNICATIONS INTEGRATION (4.5.8.3/458300_) - Oversees Systems Engineering and Combatant Engineering and Integration. Responsible for 213,051 total square feet of office, testbed/laboratory, warehouse, and vault space. Most of the testbed laboratory and vault space is located on base, while the remaining space is provided and occupied by support contractors. As part of the on base facilities, the Satellite Production Test Center (SPTC), the AEGIS Radio Communications Center (ARCC), and the NAVMACS II Testbed are unique in their employment and versatility. The SPTC provides six testbeds for the large-scale integration and testing of communication systems. The SPTC replicates the precise shipboard environment in which the systems will be installed and that the system will meet all operational requirements. The AEGIS Radio Communications Center provides an actual communications system that is employed to (1) "proof in" engineering changes prior to fleet introduction, (2)

validate and resolve casualties or anomalies experienced by the fleet, and (3) investigate the operational advantages of incorporating technologically advanced equipment into existing systems designs. The NAVMACS (Navy Modular Automated Communication System) II Testbed provides an operational NAVMACS II for the testing of the system and associated interfaces. NAVMACS II, as a system, has applicability to all Navy ships.

SYSTEMS ENGINEERING (4.5.8.3.1/458310_) - Provides field logistic agent and maintenance support functions for Fleet communications systems, expertise for shipboard communications center designs, direct support for Fleet communications equipment, and technical expertise and capability for testing and Fleet integration of advanced communications equipment and systems.

COMBAT ENGINEERING INTEGRATION (4.5.8.3.2/458320_) - Responsible for the design, integration, installation, testing, and sea trial evaluation of exterior communication systems for surface ships.

SPECIAL COMMUNICATIONS REQUIREMENTS (4.5.8.4/458400_) - Provides multi-service communications electronics systems engineering support to Special Operations and the Joint Community, as well as systems integration and installation support of communications electronics systems for fixed and mobile platforms. Additionally, designs and develops prototype communications electronics systems, upgrades and fields state-of-the-art communication systems to forces in the field, tests and evaluates communications electronics systems and equipment, and provides rapid response engineering and technical assistance to operational units worldwide. Effective communications electronics support crosses all service and various non-DoD boundaries. Currently providing its largest technical and engineering support to the U.S. Special Operations Command; the Naval Special Warfare Command; the U.S. Commanders-in-Chief, Pacific and Atlantic; and the Departments of the Navy, Army, State, Justice, Treasury, and Transportation. Special Communications Requirements' four sections include C-E Engineering, C-E Systems Integration, C-E Systems Test and Evaluation, and Life Cycle Support. Oversees a total of 62,687 square feet of space, with almost 50% being off base warehouse storage. On base laboratories provide the capabilities for base stations, system/subsystem integration/assembly/ testing, computer aided design, design and manufacture

of printed circuit boards, and an automated technical data retrieval system. Also on base, a mobile communications integration facility houses vehicle work bays, a vehicle and boat maintenance/storage area, a minor machine shop, an air power distribution system, and a mock C-130 loading ramp.

COMMUNICATION AND ELECTRONIC ENGINEERING (4.5.8.4.1/458410_) - Provides engineering, technical, and project management expertise to the design, acquisition, and installation of communication systems and related electronic systems and equipment for use by Navy Special Warfare and DoD Joint Special Operations forces.

COMMUNICATION AND ELECTRONIC SYSTEMS INTEGRATION (4.5.8.4.2/458420_) - Responsible for the design, acquisition, test and evaluation, in-service engineering and integrated logistic support of Navy and Joint Special Warfare Command, Control, Communications, Computers and Intelligence (C4I) systems and equipment.

COMMUNICATION AND ELECTRONIC TEST AND EVALUATION (4.5.8.4.3/458430_) - Performs engineering analyses, test and evaluation services, and acquisition management to support the design, development, integration, and installation of Navy special warfare and DoD joint special operations communications and related electronic systems and equipment.

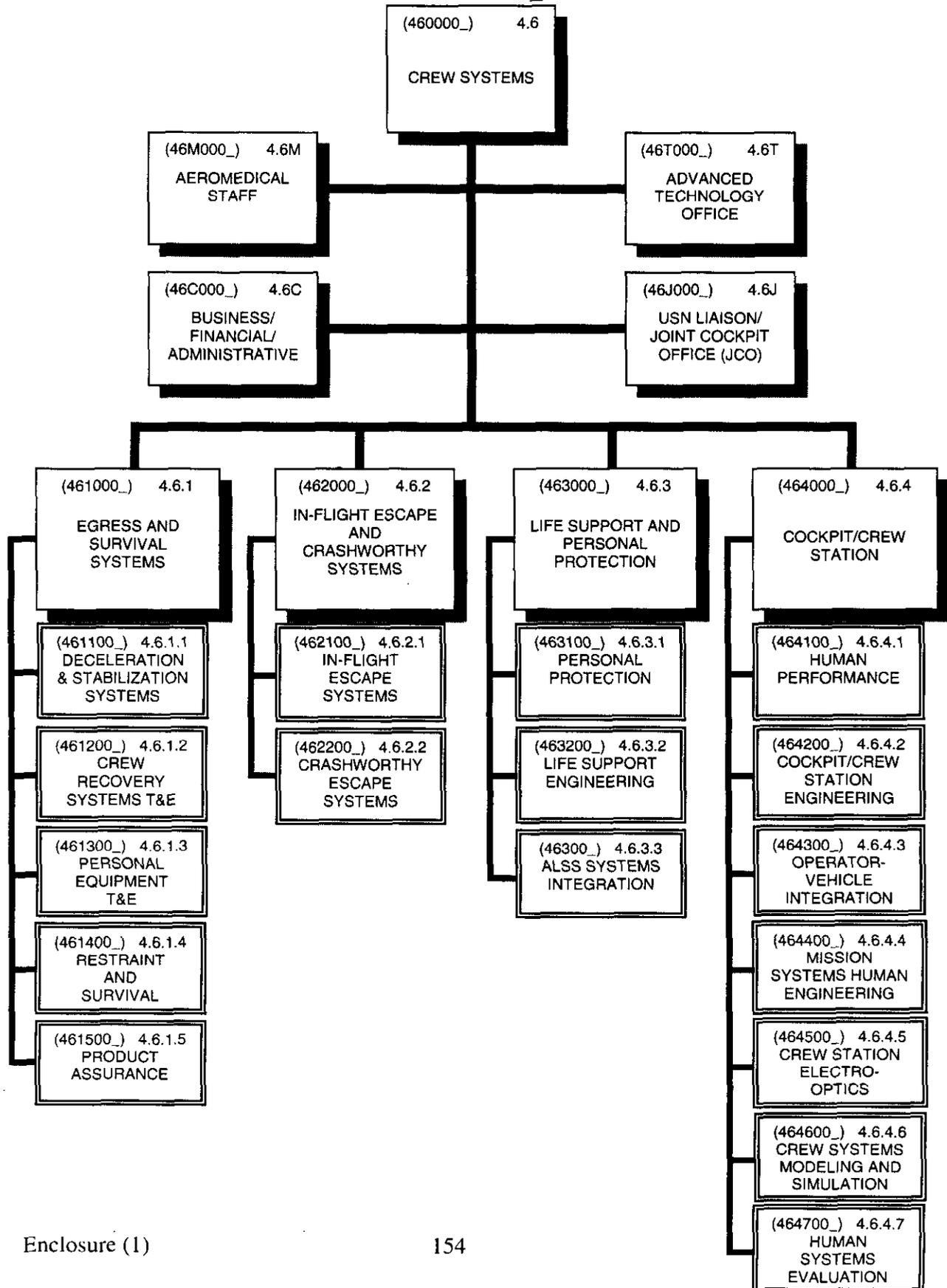
LIFE CYCLE SUPPORT (4.5.8.4.4/458440_) - Provides expertise, in-service engineering, and life-cycle support for Navy and Joint Special warfare communications systems and equipment, and for Navy standard embedded computers, such as the AN/UYK-44 Tactical Embedded Computer.

SHIPBOARD DATA LINK SYSTEMS (4.5.8.5/458500_) - Provides all forms of technical and administrative support regarding the Shipboard LAMPS MK III Data Links. Specifically provides services in support of the Light Airborne Multi-Purpose System (LAMPS) MK III AN/SRQ-4 Radio Terminal Set and the TS-4120/SRQ-4 Radio Terminal Set. Current tasking includes acquisition engineering support; installation certification; FLIR upgrade engineering; fleet support; TS-4120 Test Set procurement and maintenance; configuration management; AN/SRQ-4 Testbed operation and maintenance; as well as Depot development, management,

performance, and certification. As part of the Depot effort, an indoor antenna range is operated to re-certify system antennas. Provides installation, maintenance, and engineering support to the Ship Ground Station test facility located at NAWCAD Patuxent River. Also provides many forms of logistics support to the AN/SRQ-4 program.

INFORMATION TECHNOLOGY (4.5.8.6/458600_) - Provides integrated technical and engineering support for emerging information technologies in the areas of interactive optical technologies, Information Systems (IS), and networks. Renders expertise in the areas of IS research, IS and network engineering, business and technical management, software systems development, and systems security and analysis. An important function is researching and developing emergent interactive electronic technology. Has designed and developed an advanced proof-of-concept Interactive Electronic Technical Manual (IETM) that integrates speech generation, voice recognition, and vision augmented real-world environment. One of this level 4 organization's IETM software applications, the AEGIS Radio communication system IETM, won a Windows World Open Custom Software Application competition sponsored by Microsoft. Information Technology has also designed and developed a Joint Universal Data Interpreter (JUDI) for the Joint Chiefs of Staff, to enable command and control communications between the services.

**CREW SYSTEMS
4.6/460000_**



CREW SYSTEMS (4.6/460000_) - Provides the resources necessary to execute the engineering aspects of technology development, systems acquisition, and fleet support for the coordinated life cycle management of all aircraft flight crew systems and the human engineering design for all flight crew and maintainer hardware/software interfaces. This includes the application of systems engineering and integration, design analyses, test and evaluation, and maintenance engineering. Emphasis is on the design and operational integrity of human-machine systems in the areas of Cockpit/Crew Station Integration, Emergency Egress and Survival, In-Flight Escape, Crashworthy Systems, Threat Protection/Mission Enhancement, and Human Systems Integration.

AEROMEDICAL STAFF (4.6M/46M000_) - Provides technical and professional expertise, including identification and prioritization of aeromedical and human factors requirements in support of aircraft system design and development, with primary emphasis on translation of these requirements to design requirements. They integrate evaluation of these aeromedical factors with other government and civilian agencies, provide direct support of aeromedical research, and provide guidance and oversight for the protection of human subjects used in research.

ADVANCED TECHNOLOGY OFFICE (4.6T/46T000_) - Provides for the planning and management of Crew Systems S&T programs. Personnel are all experienced Crew Systems engineers, who use their experience and technical knowledge to plan, advocate, and execute a Government/Industry S&T investment strategy. Provides an interface with PMAs/PEOs and the technology customers to ensure maximum relevant transition of technology into operational systems. It also interfaces with the other services, industry, ONR, OSD, and other agencies to ensure an integrated S&T program that takes advantage of all investment to meet the needs of Naval aviation. Provides a coordinating function to integrate the participation of each level 3 organization in S&T planning, execution, and transition into products.

BUSINESS/FINANCIAL/ADMINISTRATIVE (4.6C/46C000_) - Operates on a single financial system and cost structure. The financial function is executed as an independent staff function within Crew Systems.

USN LIAISON/JOINT COCKPIT OFFICE (JCO) (4.6J/46J000_) - Located at Wright Patterson Air Force Base, Dayton, Ohio, serves as a joint agency for the Air Force, Naval Air Systems Team, and the Army Aviation Research, Development and Engineering Center, for integration of advanced flight vehicle cockpit/crew systems and human centered technologies. The Navy staff consists of one senior military officer and one senior civilian. The JCO is the primary interface and focal point for issues involving these technologies within all three services. Interacting with air vehicle users, developers, our military allies and logistic centers, as well as industry personnel, the JCO identifies

aircrew-systems/cockpit technology needs. In addition, the JCO further provides a user perspective to research and development agencies and the technology customers (PMAs SPOs, etc.) to ensure affordable readiness and the maximum relevant transition of technology into the operational systems of all three services. Activities include: standardization of symbology for head-up displays; integration of crew related avionics with advanced crew-stations, cockpit, protective clothing and aircraft to effectively support information warfare and precision guided weapon delivery; and facilitate cooperation with NASA, FAA, and international defense agencies.

EGRESS AND SURVIVAL SYSTEMS (4.6.1/461000_) - Provides system integration and complete life cycle support in the areas of crew egress. Product areas include recovery systems, deceleration and stabilization, survival equipment, manual escape, TACAIR restraint, interfacing hardware, and separation systems. Possesses expertise in concept definition, component level design, producibility/manufacturing, acquisition support, quality assurance, and testing. Also possesses similar capabilities for air vehicle recovery and weapon retardation. Full spectrum testing includes a cadre of skilled Navy test parachutists, inert test items including high speed vehicles and anthropomorphic manikins, an instrumented test drop zone, access to test aircraft and sled tracks, and a shock drop tower. Quality assurance capabilities include full inspection facilities for escape and parachute related components.

DECELERATION AND STABILIZATION SYSTEMS (4.6.1.1/461100_) - Provides program office support for EMD of emergency egress systems. Performs Engineering Manufacturing Development (EMD) of deceleration and stabilization systems. Focus is on acquisition support, test planning and implementation, qualification of subsystems and systems, product transition and fielding and production delivery, and support.

CREW RECOVERY SYSTEMS T&E (4.6.1.2/461200_) - Provides specialized test and evaluation of emergency egress, ejection, and threat protection systems. Expertise includes parachute rigging, packing and fabrication of test articles, design and development of specialized test equipment, and qualified personnel for handling escape system ordnance.

PERSONAL EQUIPMENT T&E (4.6.1.3/461300_) - Provides live subject test and evaluation of escape and survival equipment. Product areas include clothing, floatation equipment, restraints, emergency egress and premeditated parachute operations, and related techniques and procedures. Performs candidate,

proficiency, and advanced "jump" training, and support of the NAVAIR Live Jump and Equipment Review Process.

RESTRAINT AND SURVIVAL (4.6.1.4/461400_) - Provides inspection, testing, and assessment of fleet hardware, technical data and documentation packages, trend analysis, fault isolation specifications, in service support and technical publication support. Items include parachutes, restraints, containers, interfacing and connecting hardware, flotation devices, and 13 series NAVAIR manuals.

PRODUCT ASSURANCE (4.6.1.5/461500_) - Provides inspection, testing, and assessment of fleet hardware and technical publication support. Items include parachutes, restraints, containers, interfacing and connecting hardware, flotation devices, and 13 series NAVAIR manuals.

IN-FLIGHT ESCAPE AND CRASHWORTHY SYSTEMS (4.6.2/462000_) – Provides systems integration, research, development, evaluation, acquisition, and in-service support of ground and in-flight aircraft mounted systems to ensure maximal aircrew escape and survivability. Product areas include in-flight escape systems, rotary aircrew/troop/passenger restraint, crashworthy systems, emergency egress lighting, and aircrew locating systems, and rescue systems.

IN-FLIGHT ESCAPE SYSTEMS (4.6.2.1/462100_) – Provides for the research, simulation, development, test and evaluation, acquisition, and in-service support of a variety of products dealing with crewmember emergency escape from aircraft. Products encompass systems such as escape capsules, and all escape subsystems. This includes ejection seats, extraction devices, inter- and intra-seat sequencing, canopy fracturing systems, and survival kit containers.

CRASHWORTHY ESCAPE SYSTEMS (4.6.2.2/462200_) – Provides research, simulation, design, development, evaluation, acquisition, and in-service support of aircraft crashworthy systems to ensure maximal aircrew and passenger crash protection, escape and emergency egress potential, survival, and recovery. This includes research, lethality analysis, and the application of technological solutions to all aspects of occupant seating, restraint, energy attenuating devices, crew station, egress lighting, emergency aircraft flotation, egress and post crash survival equipment, search and rescue equipment and systems. Also, responsible for all necessary functions related to the test and evaluation of

crashworthy system equipment. Supports all phases of testing from development of test specifications, through test execution and delivery of test data. Tasking consists of facility maintenance, operation and upgrade; mechanical and electrical design; fixture development; software development; prototyping; computer aided design; fabrication, and assembly, machining; welding and installation or repair of mechanical and electrical subsystems.

LIFE SUPPORT AND PERSONAL PROTECTION (4.6.3/463000_) - Provides analysis of environmental and situational threats, determining human physiological limitations, and developing aircrew mounted systems for individual protection and/or performance enhancement. This includes research and application of hardware-based technology solutions in chemical/biological, head, altitude, ballistic, directed energy, thermal, and acceleration protection systems.

PERSONAL PROTECTION (4.6.3.1/463100_) - Provides research, development, acquisition, test and evaluation, and support of devices worn on the head and body which neutralize threats inherent in military flight operations and provide protection and support during emergency egress, survival, and evasion. Areas of expertise include: relevant aspects of night vision systems and helmet mounted display integration; chemical and biological protection of the head, eye and respiratory system and body; protective devices for impact and maneuvering acceleration (G-loads), altitude (Hypoxia), fire, hyper- and hypothermia (including cold water immersion and frostbite), survival items, and personnel flotation. Possesses the facilities for design, rapid prototyping, and evaluation of these systems.

LIFE SUPPORT ENGINEERING (4.6.3.2/463200_) – Provides research, development, acquisition, test and evaluation of life support equipment mounted on the aircraft which neutralize threats inherent in military flight operations and provide protection and support during emergency egress, survival, and evasion. Areas of expertise include protective oxygen delivery, regulation and breathing systems; airframe mounted aspects of chemical and biological agent protection; aircrew environmental control systems, pneumatic delivery systems for acceleration protection; and seat-mounted survival items. Possesses the facilities for design, rapid prototyping, and evaluation of these systems.

ALSS SYSTEMS INTEGRATION (4.6.3.3/463300_) - Provides engineering and technical services which integrate and support the completion of Crew Systems equipment developments and

enhance their fleet introduction, operation and maintenance. This includes Acquisition Management, Configuration Management/Documentation, Quality Assurance, and Qualification of all Life Support Equipment. Production Support and Maintenance Engineering are provided in the areas of NAVAIR 13 1 6.X maintenance manuals and the 3M data analysis process.

COCKPIT/CREW STATION (4.6.4/464000_) - Provides full life cycle engineering support for aircraft cockpits/crew stations. Provides research and development of all cognitive, physiological, and physical aspects of aircrew performance to insure that the aircrew are effective components within the crew station and total aircraft system. Responsible for systems engineering required to integrate the operator with the Air Vehicle/Weapon Systems. It is responsible for Crew Station Design and the overall integration of all components of human-machine systems. Staffing requires a mix of personnel with knowledge and training in engineering, physiology, psychology, aircraft piloting, and mission operations to ensure aircraft operational safety and integrity, and enhance operator and maintainer performance throughout the full cycle.

HUMAN PERFORMANCE (4.6.4.1/464100_) - Provides research, development for the various aspects of human performance, and tolerance to environmental conditions. This includes such technical areas as G-tolerance and induced loss of consciousness, aircrew cognition and perception, decision support and analysis, thermal physiology, respiratory physiology, and physical workrate assessment. Responsible for the development of requirements for protection and performance enhancement of the subjects, as well as, the effects of protective devices under development. Supports all phases of the acquisition cycle with direct sponsorship from platform program managers, external Navy sources, other services and industry. Operates the Environmental Physiology Lab.

COCKPIT/CREW STATION ENGINEERING (4.6.4.2/464200_) - Provides engineering support and technical management for cockpits and crew station design and coordination of overall Crew Systems technical support on aircraft programs. Serves as the focal point for all engineering related to design, development, production, and in-service support of USN cockpits and crew stations.

OPERATOR-VEHICLE INTEGRATION (4.6.4.3/464300_) - Provides aircraft platform human engineering. This includes such technical areas as crew accommodation, control design, control/display integration, information engineering, crew/system

performance, human computer integration, and design for maintainer for all Navy aircraft programs. Supports all phases of the acquisition cycle with direct sponsorship from platform program managers, external Navy sources, other services and industry. Operates the Man-Machine Integration Lab.

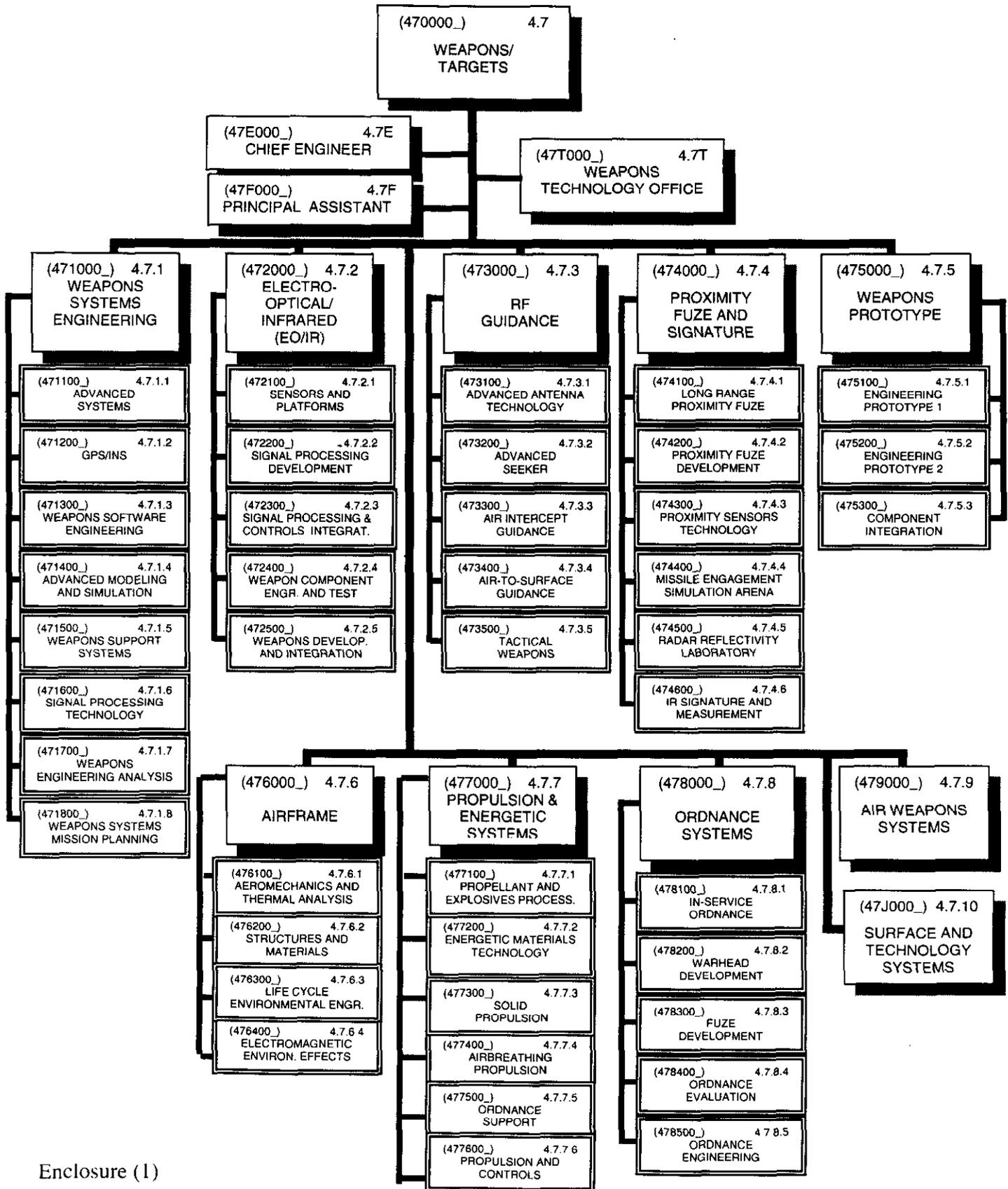
MISSION SYSTEMS HUMAN ENGINEERING (4.6.4.4/464400_) - Provides human engineering support to mission weapons and training systems. This includes such topical areas as UAV control stations, airborne mission systems, and advanced communications and navigation systems. Responsible for the technical areas of control design, control/display integration, information engineering, crew/system performance, human-computer integration, and design for maintainer with respect to mission systems. Supports all phases of the acquisition cycle with direct sponsorship from platform program managers, external Navy sources, other services, and industry. Operates the Human Factors Test and Evaluation Lab.

CREW STATION ELECTRO-OPTICS (4.6.4.5/464500_) - Provides RDT&E support in the areas of internal/external aircraft lighting, cockpit transparencies, night vision devices, helmet mounted displays, and cockpit/crew station electronic displays. Supports all phases of the acquisition cycle with direct sponsorship from platform program managers, external Navy sources, other services, and industry. Operates the Crew Systems Transparency and Lighting Lab, Night Vision Device and Cockpit Display Lab, and the Night Combat Test Lab.

CREW SYSTEMS MODELING AND SIMULATION (4.6.4.6/464600_) - Provides a mixture of state-of-the-art crew station technologies and human factors engineers to evaluate the synergism between the capabilities of the technology and the behavioral based abilities of the aircrew. Uses modeling and simulation to assess human performance workload, helmet mounted displays, mission planning and rehearsal systems, and display symbology. Supports the integration of advanced technologies into crew station designs and is also responsible for the development and execution of behavioral test methods and analyses. Supports all phases of the acquisition cycle with direct sponsorship from platform program managers, external Navy sources, other services, and industry. Operates the Crew Station Technology Laboratory.

HUMAN SYSTEMS EVALUATION (4.6.4.7/464700_) - Provides total technical support to achieve the effective integration and independent test and evaluation of air vehicle human interfaces and air vehicle induced environmental hazards. This includes all T&E of cockpit/crew stations, operator stations, and the related environmental systems, as well as vehicle induced hazards (cabin air quality and control, acoustical noise, rotor/engine downwash/ plane hazards). Operates the Aircrew Environmental Hazards T&E Lab.

**WEAPONS/TARGETS
4.7/470000_**



WEAPON/TARGETS (4.7/470000_) - Provides the resources to support the maritime engineering needs of technology development, system acquisition, and product support of all Naval Aviation weapons and targets. Support is provided to IPT/EDT/ET/PLT maritime aviation technology programs and the general needs of Naval Aviation.

CHIEF ENGINEER (4.7E/47E000_) -Serves as the expert consultant in systems engineering, analysis, missile guidance, design of experiments, and control systems in Weapons/Targets. Assembles and directs teams of Center personnel to investigate specific problem areas affecting the design and operation of major weapon systems. Consulted by scientists and engineers nationwide for expertise in RF technology, modeling, simulation, and analysis.

PRINCIPAL ASSISTANT (4.7F/47F000_) - Responsible for technical management of systems engineering applications spanning from weapons to the battlespace arena. Directs national-caliber experts developing new business plans, conceptual solutions to emerging requirements, marketing approaches, and interfaces between the requirements, technology, and acquisition communities. Provides direction to other laboratories and major contractors in operational analysis studies leading to Extended Battlespace Operational Requirements documents. Interfaces with Navy and Air Force laboratories, program directors, and warfighters.

WEAPONS TECHNOLOGY OFFICE (4.7T/47T000) - Responsible for oversight and coordination of weapons technology efforts, and represents the NAWCWPNDIV for the NAVAIR Weapons Product Line Team. Provides oversight, coordination, and interface for discretionary, SBIR, NSTEP/NSAP, industry home-on-home visits, and technology coordination efforts for the NAWCWPNDIV and the Research and Engineering Competency.

WEAPONS SYSTEMS ENGINEERING (4.7.1/471000_) - Provides modeling and simulation, software development, weapon mission planning, and overall weapon system engineering and analysis for the entire battlespace. This includes advanced simulations and modeling, weapons mission planning module development and related missile support, weapons navigation and data link, weapon dynamics and controls, advanced signal processing, and weapons systems analysis, development, and support.

ADVANCED SYSTEMS (4.7.1.1/471100_) - Simulates, demonstrates, develops, and transitions advanced datalink, electro-optical guidance and control technology, concepts, and systems for broad spectrum weapons applications.

GPS/INS (4.7.1.2/471200_) - Responsible for analysis, applications design, product development, performance predictions, integration, test and evaluation of Global Positioning Systems (GPS) navigation equipment and Inertial Navigation Systems (INS). Provides for NAWCWPNDIV the Center of Expertise for GPS issues and central point of entry for resolution and tasking.

WEAPONS SOFTWARE ENGINEERING (4.7.1.3/471300_) - Provides the people, processes, technology, and facilities necessary to perform pre and post-deployment software life-cycle support of weapons systems and weapon mission planning. This support includes software acquisition, management, development, maintenance, and the development of emerging technology consisting of requirements analysis, design, implementation, test and integration, software quality assurance, and software configuration and data management.

ADVANCED MODELING AND SIMULATION (4.7.1.4/471400_) - Provides advanced modeling and simulation support for product teams.

WEAPONS SUPPORT SYSTEMS (4.7.1.5/471500_) - Provides engineering support in the area of Weapons Support Systems. This includes the development and advancement of weapon mission planning systems, generation and evaluation of concepts for future weapon systems and their targeting requirements, demonstration/integration of these concepts into the battlefield environment, provide weapon simulation capability to demonstrate concept feasibility, and provide engineering support for existing weapon systems.

SIGNAL PROCESSING TECHNOLOGY (4.7.1.6/471600_) - Acts as the primary signal processing technology development (6.1, 6.2, and 6.3) organization in Code 472. It develops new signal processing techniques for missile guidance, control, and fuzing functions, reports on its efforts in appropriate forums, and keeps abreast of signal processing developments and advances. Proposes new technology work, carries out signal processing development with its own personnel and resources, and coordinates signal processing activities with those of other NAWCWPNDIV organizations and external organizations. Advises on all signal processing issues falling within its purview.

WEAPONS ENGINEERING ANALYSIS (4.7.1.7/471700_) - Responsible for detailed model synthesis, including integration and validation, for use in the analysis of missile system guidance and control performance capabilities. Detailed models include those involving seeker platforms, signal and image processing, tracking and fusing algorithms, aerodynamics, control systems/auto pilots, target vulnerability, warhead interaction, and target and background signatures. Responsible for using this collection of tools and facilities for requirements flowdown, system development, missile system flyout and endgame performance assessments, and overall weapon system performance predictions.

WEAPONS SYSTEMS MISSION PLANNING (4.7.1.8/471800_) - Provides systems and subsystems engineering and analysis associated with weapons mission planning including those elements residing in the weapon, related interface equipment, and other related interfaces.

ELECTRO-OPTICAL/INFRARED (EO/IR) (4.7.2/472000_) - Provides the expertise, processes, facilities, and tools necessary to support engineering efforts associated with EO/IR systems and sub-systems. These efforts include; systems engineering, systems analysis and evaluation, exploitation, technology advancement, design, development, fabrication, test, integration, and in-service engineering.

SENSORS AND PLATFORMS (4.7.2.1/472100_) - Provides the expertise, processes, facilities, and tools necessary to support engineering efforts associated with technology, development, analysis, and in-service engineering of EO/IR sensors and guided missile seekers. Responsible for the design, analysis, fabrication, assembly, and testing of electro-optic sensors and guided missile seekers operating in the ultraviolet through infrared spectral regions. This covers all areas of E/O sensors and seekers including detectors/focal plane arrays, optics, mechanical design and analysis, cryogenics/cooling, and the assembly/testing of seekers in a clean room environment.

SIGNAL PROCESSING DEVELOPMENT (4.7.2.2/472200_) - Provides the expertise, processes, facilities, and tools necessary to support the design, analysis, test, and assessment of image and signal processing algorithms for weapon systems. This includes all systems operating in the ultraviolet, visible, infrared, and radio frequency spectral regions.

SIGNAL PROCESSING AND CONTROLS INTEGRATION (4.7.2.3/472300_) - Provides the expertise, processes, facilities, and tools to plan, execute, and manage engineering tasks associated with the technology advancement, design, development, and integration of system and sub-system concepts for advanced signal processing architectures; and control systems for airframes and platforms. Included are systems engineering, analysis and evaluation, electronic and mechanical design, hardware specific software engineering, sub-system and component level modeling and simulation, conceptual hardware development and fabrication, integration, documentation, and test support.

WEAPON COMPONENT ENGINEERING AND TEST (4.7.2.4/472400_) – Provides the expertise, processes, facilities, and tools necessary to support weapon production engineering. These efforts include electronic and mechanical engineering, design and design analysis, producibility analysis, weapon component integration and testing, and depot level technical support for various weapon programs associated with development, production, in-service engineering, reverse engineering, interfaces, flight, and surveillance testing. Integration efforts include integration of various weapon Guidance Control Section (GCS) components and integration of the GCS with other weapon components and launch platforms.

WEAPONS DEVELOPMENT AND INTEGRATION (4.7.2.5/472500_) - Provides the expertise, processes, facilities, and tools necessary to support a wide range of customer needs. Primary functions include system design, development, integration, test and evaluation, and documentation support. Specific technical capabilities include digital/analog electronic circuit design, complex/precision mechanical hardware design, control system design/analysis, mission planning and simulation, weapons interface control, as well as the ability to conduct and support laboratory/ground-based field testing. In addition, provides project management, coordination, and systems engineering support services.

RF GUIDANCE 4.7.3/473000_) – Provides the people, processes, and facilities necessary to support technology, development, analysis, and in-service engineering of guided missile seekers which convert electromagnetic target signatures (VHF, UHF, RF and MMW frequency bands) to missile guidance commands. Included are all engineering efforts to support the conversion of G&C requirements into integrated and tested missile seeker sensors and subsystems, such as radomes, sensors, antennas, transmitters, receivers, analog and digital processors,

and embedded digital computers. For signal processing efforts, supports the conversion of G&C System requirements into target detection, target tracking, clutter rejection, Counter-Countermeasure (CCM) detection and CCM rejection algorithms within all frequency bands, the conversion of algorithms into software and hardware requirements, the coding, verification and validation of software, and the development, fabrication, and test of analog and digital signal processing hardware components to include laboratory and flight demonstration hardware. Special areas of technical leadership provided are in the lethal suppression of enemy air defenses and in the exploitation of RF missile guidance systems.

ADVANCED ANTENNA TECHNOLOGY (4.7.3.1/473100_) - Provides development through the design, fabrication, and measurement of antennas, RF/microwave components, and electromagnetic propagation (radar) and scattering (RCS) subsystems. Also operates and maintains an outside antenna test range and assorted RCS test equipment.

ADVANCED SEEKER (4.7.3.2/473200_) - Provides development of millimeter wave components and devices, antennas, transmitters, and seeker subsystems. Also develops active RF seeker concepts and designs, and provides production support for some guided missile systems.

AIR INTERCEPT GUIDANCE (4.7.3.3/473300_) - Provides engineering support for technology development, production support, and in-Fleet support for air-to-air missile guidance systems. Also operates and maintains several microwave and multi-spectral anechoic chamber test facilities used to test and evaluate missile guidance systems and subsystems.

AIR-TO-SURFACE GUIDANCE (4.7.3.4/473400_) - Provides engineering development of passive RF and multi-mode guidance systems for air-to-surface guided missiles. Engineering support includes ARM system design, antennas and related RF system components, receiver design, digital and analog circuit design, embedded processors, and special digital signal processing. Also operates and maintains a large-scale VHF anechoic chamber and microwave anechoic chamber for precision test and evaluation of missile guidance systems and subsystems.

TACTICAL WEAPONS (4.7.3.5/473500_) - Provides engineering support for various defense suppression guided missile and direct attack munition weapons systems.

PROXIMITY FUZE AND SIGNATURE (4.7.4/474000_) – Provides the people, processes, and facilities necessary to support engineering efforts associated with IR/RF signature measurements and proximity fuzing. Proximity fuzing includes technology development, in-service engineering, and integration of components which sense target proximity and enable the weapon or system to destroy the target. Serves all military and industry customers, foreign and domestic, at China Lake and Point Mugu laboratories with the additional ability to deploy at remote locations.

LONG RANGE PROXIMITY FUZE (4.7.4.1/474100_) - Provides engineering services in support of NAWCWD's role as Technical Direction Agent for the STANDARD Missile proximity fuze. Specific tasks and processes include exploring technical alternatives, performing critical experiments, validating technology, and supporting the design, test and transition to production of STANDARD Missile proximity fuzes. In-service support of all production STANDARD Missile fuzes is also provided.

PROXIMITY FUZE DEVELOPMENT (4.7.4.2/474200_) - Provides full life cycle technical support and engineering for all U.S. Navy air intercept target detectors, air-to-ground target detectors, and active RF bomb fuzes. Specific tasks and processes are to explore technical alternatives, perform critical experiments, validate technology, and support the design, test, and transition to production of these fuzes. The mission also includes in-service support of all production fuzes deployed in the fleet. Supports Target Detectors for the following: the Rolling Airframe Missile (RAM), Sidewinder missile, High Speed Antiradiation Missile (HARM), Sidarm missile and the DSU-33 bomb. In addition, provides support to all U.S. Navy air intercept missile RF Target Detecting Devices (TDD) which includes the AMRAAM missile, Sparrow Missile, NATO Evolved Sea Sparrow Missile (ESSM), Phoenix Missile, and Standard Missile.

PROXIMITY SENSORS TECHNOLOGY (4.7.4.3/474300_) - Designs, develops, and tests TDD and proximity sensors throughout the entire electromagnetic spectrum in support of U.S. Navy air- and surface-launched weapons systems. Specific functions include development of concepts, definition of critical experiments, design and analysis of measurement systems to perform the critical experiments, testing in both simulated and real environments, reduction and analysis of test data results, and documentation of results. The lessons learned become the basis for improvement of existing weapons systems and the evolution of new weapons system concepts.

MISSILE ENGAGEMENT SIMULATION ARENA (MESA) (4.7.4.4/474400_) - Supplies missile sensor endgame signature measurements. These measurements provide warhead burst point for use in survivability/vulnerability predictions. This is accomplished with overhead supports capable of positioning targets up to 25,000 pounds each at any desired orientation within 0.1 degree and 0.2 inches. The range is an all weather, indoor facility with inside dimensions of 405 feet long, 150 feet wide, and 90 feet high. The missile sensor is mounted on a three-axis positioner and moved past the target to simulate the required engagement geometry. This can be accomplished with a production rate of 200 encounters per day, due to the ability to rapidly reposition the target. Fuze development and assessment support has been provided for Standard Missile, Sparrow, ESSM, AMRAAM, and Patriot missile systems. Platform survivability assessment support has been provided for numerous cruise missile development and upgrade programs. The MESA laboratory can support the near field, near miss sensor measurement needs of the entire DoD and private industry.

RADAR REFLECTIVITY LABORATORY (4.7.4.5/474500_) - Measures, analyzes, and synthesizes Radar Cross Section (RCS) and antenna pattern data. The RRL tests a wide variety of objects such as full-scale missiles, scale-model aircraft and ships, target augmentation systems, airborne, space, and surface threat-simulation targets, antennas, surface ships and components, submarine masts/periscopes, low-observable systems and components, rotating propulsion systems, and other items. Measurement operations are performed using anechoic chamber facilities to provide low-cost, high-fidelity, and weather-independent capabilities that include, but are not limited to, monostatic and bistatic RCS and antenna pattern tests over extremely wide frequency ranges. Portable systems are used for field tests. Numerous in-house developed analysis tools are used to fully diagnose and characterize RCS scattering for applications such as low-observable design, target modeling for digital simulations, and lethality and survivability analyses. The RRL serves a broad range of military, non-DOD government, industry, and foreign customers.

IR SIGNATURE AND MEASUREMENT (4.7.4.6/474600_) - Characterizes targets, backgrounds, and combinations of targets and backgrounds with respect to their electromagnetic emissions especially in the Infrared (IR.) radiation band. Such characterizations include computer modeling, prediction; spectral, spatial, temporal, radiometric measurements; and IR seeker

hardware performance. Analyzes the measured data and stores the data for future use in order to provide the customer with the highest quality data in a timely manner for the lowest cost possible. Maintains liaison with other organizations nationally that are involved in similar activities to maintain expertise and foster profitable communications.

WEAPONS PROTOTYPE (4.7.5/475000_) - Provides mechanical and electronic systems prototype manufacturing, component integration, and concurrent engineering services to NAWCWPNDIV and other DoD customers. Supports integrated prototype and production manufacturing capabilities with the following functions: project planning, estimating, coordinating and scheduling, work flow prioritizing, assembly, non-destructive evaluation, conditioning, finishing, quality control, and inspection. Performs primary customer interface and supports total manufacturing capability in NAWCWPNDIV to support the development and integration of engineering concepts into viable components, hardware, and sub-assemblies that comprise a variety of applications including tactical-weapons and targets. This level 3 organization is directly integrated and responsive to the functions and capabilities of the following level 4 organizations: Engineering Prototype 1, Engineering Prototype 2, and Component Integration.

ENGINEERING PROTOTYPE 1 (4.7.5.1/475100_) - Provides comprehensive prototype and production manufacturing services of mechanical systems to NAWCWPNDIV projects and customers. Services provided include conventional and precision machining, grinding, conventional and specialty welding (inertia friction, electron beam, and laser), electro-discharge machining, sheet metal fabrication, rapid prototyping, and flexible computer integrated manufacturing services. Materials worked include graphite, phenolics, ceramics, composites, polymers, and all metals. This level 4 organization is directly integrated and responsive to the functions and capabilities of Weapons Prototype, a level 3 organization. Shop facilities located in Michelson Laboratory are administered by this level 4 organization.

ENGINEERING PROTOTYPE 2 (4.7.5.2/475200_) - Provides comprehensive prototype and production manufacturing services of mechanical systems to NAWCWPNDIV projects and programs. Services provided include conventional and precision machining, grinding, conventional welding, electro-discharge machining, sheet metal fabrication, and flexible computer integrated manufacturing services. Materials worked include phenolics, polymers and all metals. This level 4 organization is directly integrated and

responsive to the functions and capabilities of Weapons Prototype, a level 3 organization. Shop facilities located at Point Mugu, Salt Wells, and Randsburg Wash are administered by this level 4 organization.

COMPONENT INTEGRATION (4.7.5.3/475300_) - Provides comprehensive prototype and production manufacturing services of electronic systems to NAWCWPNDIV projects and programs. Services include integration of engineering concepts into viable components, hardware, and sub-assemblies. This level 4 organization is directly integrated and responsive to the functions and capabilities of Weapons Prototype, a level 3 organization. Shop facilities located at Thompson Laboratory, China Lake Airfield, and Michelson Laboratory are administered by this level 4 organization.

AIRFRAME (4.7.6/476000_) - This level 3 organization consists of engineering efforts associated with the technology, development, and integration of the full life cycle of weapon and subscale target airframes. Full spectrum support is provided from concept formulation through design/analysis, fabrication, and testing. Carries out its work by providing personnel to Integrated Project Teams (IPTs) and by conducting enterprise programs. Is the principle support activity responsible for: Aeromechanics (aerodynamics and flight dynamics) and thermal analysis; Structures and Structural Materials (including Composite Materials); Mechanical Design, Life Cycle Climatic, Dynamic, and Electromagnetic Environmental Engineering; Missile performance and associated analysis.

AEROMECHANICS AND THERMAL ANALYSIS (4.7.6.1/476100_) - This level 4 organization includes engineering activities related to both aeromechanics (aerodynamics and flight dynamics) and thermal analysis. The aeromechanics function provides engineering and advanced theoretical prediction codes to evaluate aerodynamics, stability and control, and store separation. Performance predictions are generated for existing and advanced designs to determine if specified performance requirements are met. Engineers plan and conduct wind tunnel tests and evaluate data to determine aerodynamic effects. The function maintains NAWCWPNDIV critical skills in calculating store separation trajectories (external/internal carriage), high angle-of-attack performance, aircraft/weapon physical interfaces, and developing and applying Computational Fluid Dynamics (CFD) codes for weapon systems. It is responsible to the NAWCWPNDIV Aircraft Configuration Control Board (ACCB) for aerodynamic evaluation for flight clearances and aircraft mods. Members develop flight control

laws, perform control system design and analysis, and develop dynamic models for use in simulations. Special emphasis is placed on providing aerodynamic support to the level 2 organization Air Vehicle and IPTs for weapons, stores, and aircraft integration.

The thermal analysis function provides engineering expertise in the areas of heat transfer, thermodynamics, materials, fluid and gas dynamics, computational aerothermodynamics, and thermal testing. Personnel develop and maintain extensive software to account for conduction, convection, and radiation heat transfer. One, two, and three dimensional steady state and transient models are generated to predict physical phenomenon. Finite difference and finite element models with provisions for ablation, thermochemistry, and adaptive grid are utilized to predict temperature and temperature distributions on weapon systems and related components. Critical technology modeling expertise is maintained in the areas of: (1) thermal stress and fracture statistics of radome materials, (2) ablation of radome and rocket nozzles, (3) kinetic reaction and cook-off predictions for ordnance, (4) thermal and IR radiation predictions and testing for IR seekers with participating media, and (5) CFD codes to enhance boundary layer predictions.

Owns the CFD development laboratory and the High Performance Computing Lab, and manages the T-range aerothermal test facility. In addition, it utilizes various wind tunnel facilities in the Air Force, NASA, and industry.

STRUCTURES AND MATERIALS (4.7.6.2/476200_) - This level 4 organization includes engineering activities related to structural mechanics, structural materials, and the design/development of mechanical systems and airframes. Provides engineering design and fabrication of airframes and airframe components for conceptual and developmental weapons, pods and wind tunnel models, analysis, and test support including structural design criteria determination, structural loads analysis, stress analysis, structural dynamics (analysis and modal testing), aero-elasticity, structural testing, thermal-stress analysis, design and analysis of composite structures, and high temperature material application. Engineers conduct exploratory development efforts in these areas in order to address technology deficiencies and maintain critical skill and techniques. Maintains NAWCWPNDIV structural analysis capabilities, including state-of-the-art structural analysis computer codes and composite material databases. Also creates configuration layouts and drawing packages including installation and mounting electronic components, mass properties estimates,

model buildups, and they formulate assembly/disassembly procedures, prepare test documentation, test plans, and coordinate ground and flight testing. Responsible to the NAWCWPNDIV Aircraft Configuration Control Board (ACCB) for the structural integrity and material verification for flight clearances and aircraft modifications and provides consulting services, representation on technical committees, and contract monitoring services in areas of expertise. Special emphasis is placed on providing structural integrity support and material engineering support to the Air Vehicle, a level 2 organization, and IPT's for weapons, stores, and aircraft integration.

LIFE CYCLE ENVIRONMENTAL ENGINEERING (4.7.6.3/476300_) - This level 4 organization includes engineering activities related to providing engineering and technical support during the determination and documentation of environmental design and test requirements for weapons and related equipment, including the preparation of Life Cycle Environmental Profiles. These include climatic and dynamic environments. Provides engineering and technical support and facilities to perform environmental testing simulating climatics, dynamics, and loads including preparing test plans, procedures, and reports. Coordinates the collection, analysis, and reporting of environmental data relating to the environmental qualification of NAWCWPNDIV products using data obtained from NAWCWPNDIV facilities, contractor testing, and fleet usage. Also manages the efforts of the Environmental Qualification Review Panel which is responsible for assuring the proper application on engineering and management principles to the design, development, and test of material within NAWCWPNDIV. Coordinates standardization efforts regarding national and international documents covering safety and suitability for service of materiel and systems as affected by climatic, dynamic, and environments.

ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (4.7.6.4/476400_) - This level 4 organization includes engineering activities related to providing engineering and technical support during the determination and documentation of electromagnetic design and test requirements for weapons and related equipment, including the preparation of Electromagnetic Effects Operational Profiles. These include induced and natural electromagnetic environments. Provides engineering and technical support and facilities to perform testing simulating electromagnetic effects including preparing test plans, procedures, and reports. Coordinates the collection, analysis, and reporting of electromagnetic data relating to the

qualification of NAWCWPNDIV products using data obtained from NAWCWPNDIV facilities, contractor testing, and fleet usage. Provides support to NAWCWPNDIV ACCB in all areas relating to Electromagnetic Environmental Effects and aircraft information security.

PROPULSION AND ENERGETIC SYSTEMS (4.7.7/477000_) - Provides the principal design and development capability in the areas of propulsion systems and subsystems, energetic materials, and control actuation systems for rockets and guided missiles including exploratory and advanced development work on propulsion-related components, propellants and explosives, the design and development of solid-propellant motors and air-breathing engines, production support and in-service engineering for propulsion and control systems and the fabrication of prototype components and systems; represents NAWCWPNDIV on national organizations such as JANNAF and on international Data Exchange Agreements in the areas of propulsion and energetic materials; and functions as the NAWCWPNDIV propulsion and energetic materials focal point. Maintains the ordnance processing equipment for the NAWCWPNDIV to ensure the capability to scale up explosives and propellants and to manufacture and test prototype ordnance packages and propulsion systems.

PROPELLANT AND EXPLOSIVES PROCESSING (4.7.7.1/477100_) - Fabricates prototype ordnance items and components such as rocket motors, warheads, bombs, bomblets, igniters, boosters, propellants, explosives, and gas generators for internal use at NAWCWPNDIV, for developmental and qualification programs and for Low Rate Initial Production (LRIP); provides technical expertise in the areas of solid propellant and explosive processing and in the transition of processing techniques to industry; assembles and disassembles ordnance items and missiles; provides technical management for propellant and explosive related programs; and develops new ordnance processing techniques.

ENERGETIC MATERIALS TECHNOLOGY (4.7.7.2/477200_) - Develops scale-up procedures for the chemical synthesis of new explosive materials, develops technology in new areas of propellant and explosive formulation, assists in the application of these new propellants and explosives to current and future Navy tactical weapons, and develops technology in new areas of high temperature ordnance materials, including composite materials, propellant and explosive liners, insulations, and ramjet fuels.

SOLID PROPULSION (4.7.7.3/477300_) - Provides engineering support for the design, development, analysis, manufacturing, and testing of solid propulsion systems and related components. Expertise provided by this level 4 organization is utilized by exploratory and advanced development efforts; propulsion systems demonstration, product improvement, and production efforts; and by efforts to formulate, evaluate, market, and direct new propulsion technology concepts. In addition to technical expertise, provides project engineering and management support to various projects at NAWCWPNDIV.

AIRBREATHING PROPULSION (4.7.7.4/477400_) - Provides the principal design and development capability at NAWCWPNDIV in the area of airbreathing propulsion including ramjets, scramjets, pulse detonation engines, airturbo ramjets, turbine engines and advanced fuels; provides testing capability for airbreathing engines and small solid rocket motors and their components; and represents NAWCWPNDIV on national organizations such as JANNAF and on international Data Exchange Agreements in the area of airbreathing propulsion.

ORDNANCE SUPPORT (4.7.7.5/477500_) - Maintains and develops operating equipment and processing systems for research, development, testing and evaluation of ordnance devices, propellants, and explosives at NAWCWPNDIV; provides liaison to the Public Works Department for Propulsion and Energetic, a level 3 organization; and provides environmental controls for personnel and for hazardous operations by design, installation, and maintenance of environmental control systems.

PROPULSION AND CONTROLS (4.7.7.6/477600_) - Provides engineering and technical management support for the design, development, analysis, manufacturing, and testing of solid propulsion systems, control actuation systems, and related components with an emphasis on insensitive munitions, servo flight control systems (including gas generators, thermal batteries, and hydraulics), arming/firing devices, and missile power systems. Expertise provided is used in exploratory and advanced development efforts as well as propulsion and control system demonstrations, product improvement, production support, and system integration.

ORDNANCE SYSTEMS (4.7.8/478000_) - Develops safe, reliable, and effective ordnance components and ordnance system designs; establishes safety policy for fuze safe-arm-designs; predicts performance

capabilities and insensitive munitions response; and tests, analyzes, and qualifies the ordnance components/system developed within this level 3 organization. Conducts exploratory research and development of concepts for contact fuzes, warheads, munitions, submunitions, safety-arming devices, initiation systems, explosive components (including evaluation techniques), aircraft guns, ammunition, and insensitive munitions compliance concepts. Provides technical direction to contractors involved in the development of ordnance components and systems, including contact fuzes, safety-arming devices, warheads, free-fall and unguided munitions and submunitions fuzes including dispenser fuzes, aircraft guns, ammunition, explosive components (detonators, leads, boosters, destructors), insensitive munitions, racks and launchers, associated test equipment, and service qualification requirements. Designs, develops, and provides technical data and assist in technical data package preparation (development and production fabrication specifications, drawings, instruction manuals) for the ordnance components, devices, and systems described in the above paragraphs.

IN-SERVICE ORDNANCE (4.7.8.1/478100_) - Responsible for providing mature system engineering program management, basic design engineering, production engineering support, product improvement engineering and management support, and procurement support for cognizant bomb systems commodities. The bomb system commodities includes general purpose and practice bombs; laser guided bombs; SKIPPER cluster weapons; chemical weapons and chemical smoke dispensers; fire bombs; practice bomb signal cartridges; high and low drag bomb fins; suspension lugs; racks and launchers; mechanical and electrical fuzes and their associated and related commodities including initiators, igniters, primers, detonators, and boosters; arming vanes, wires, and clips; target detection devices; arming safety switches and devices; and weapon installation, and operation interfaces.

WARHEAD DEVELOPMENT (4.7.8.2/478200_) - Responsible for warheads, warhead boosters, warhead initiation systems, and munitions technology. Conducts E&MD of missile warheads and warhead initiation systems for Navy missile and free-fall weapon warheads and provide consultation to NAWCWPNDIV IPTs. Also provides documentation for missile warheads previously developed at China Lake. Provides capabilities in predicting and modeling the response of ordnance and energetic materials to IM stimuli. Responsible for coordinating test activities for the qualification of munitions as related to performance, safety, and reliability.

FUZE DEVELOPMENT (4.7.8.3/478300_) - This level 4 organization is the primary Navy focal point for safe-arm devices, destructors, and related energetic components for guided missiles and unguided and free-fall weapon systems. Performs exploratory and advanced development, Engineering, and Manufacturing Development (E&MD), production assistance, and support for guided missile warhead safety-arming devices (including both electromechanical and all electronic technologies). Responsible for the testing of energetic components used in safety-arming devices. Conducts explosive train evaluations, tests safe-arm, and other devices under extreme environmental conditions, loads and unloads explosive devices, conducts firings of small scale explosives, and participates in failure analysis when primary explosives are involved. Additionally, provides exploratory and advanced development, E&MD for contact sensors.

ORDNANCE EVALUATION (4.7.8.4/478400_) - Develops and manages ordnance experimental projects, either exclusively or in support of ordnance development projects. Develops tests procedures and specifications, determines instrumentation requirements, coordinates test schedules and hardware, and prepares presentations and reports on test projects. Ordnance test projects will be managed either on Center or at remote locations as required. Additionally, provides ordnance-handling support to Ordnance Systems, a level 3 organization, and others as needed both on Center and off Center.

ORDNANCE ENGINEERING (4.7.8.5/478500_) - Conducts research, development, test and evaluation, production engineering support, and in-service engineering for Navy/USMC aircraft guns and ammunition. Additionally, performs experimental and analytical studies to determine the thermal behavior of energetic materials and the interaction of such materials with ordnance related substances and systems designs. Characterizes the detonation properties, hazards, and performance of new and existing explosives, explosive devices, and ordnance system components; including: igniters, small scale rocket motors, fuze components, boosters, incendiaries, etc. assists in the development and identification of applications for new energetic materials technologies, including the use of nanoparticle materials in explosives and propulsion systems designs.

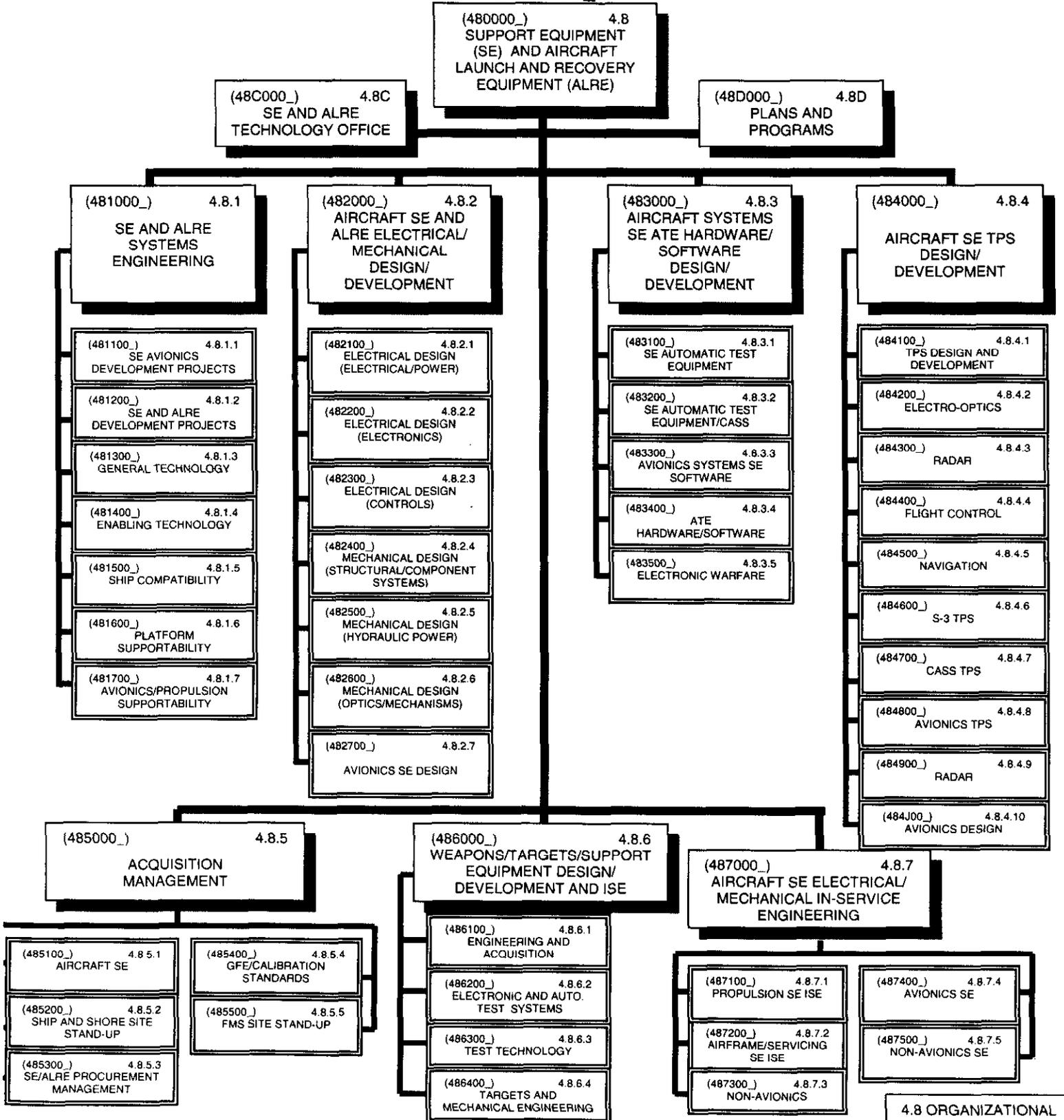
AIR WEAPONS SYSTEMS (4.7.9/479000_) - Provides managerial and leadership support and coordination of the Internal Program Teams (IPTs) supporting weapons and subscale targets.

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SURFACE AND TECHNOLOGY SYSTEMS (4.7.10/47J000_) - Provides managerial and leadership support and coordination of the Externally Directed Teams (EDTs) supporting weapons and subscale targets.

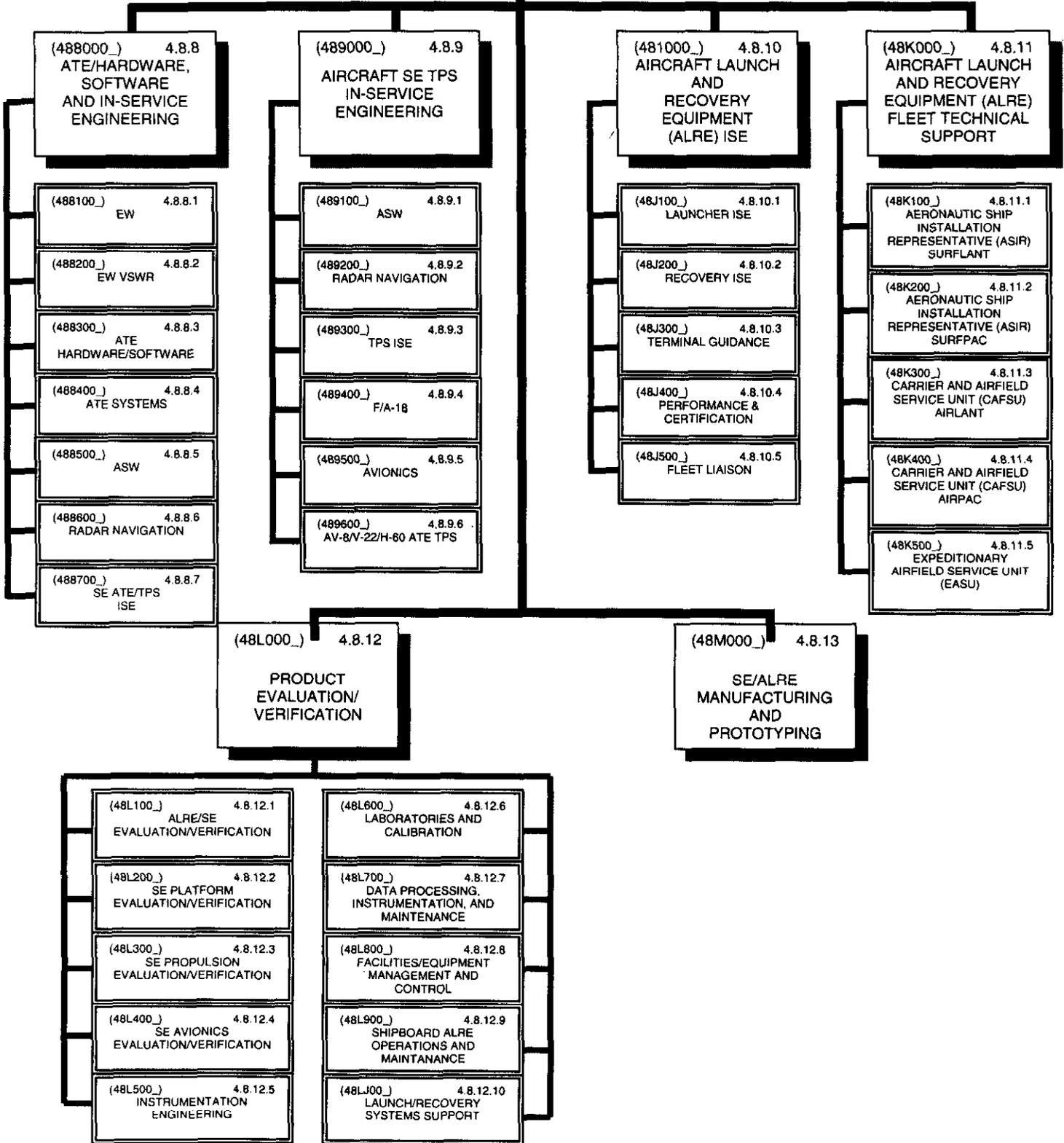
**SUPPORT EQUIPMENT AND AIRCRAFT LAUNCH AND RECOVERY
4.8/480000**



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(480000_) 4.8
SUPPORT EQUIPMENT
(SE) AND AIRCRAFT
LAUNCH AND
RECOVERY
EQUIPMENT (ALRE)



SUPPORT EQUIPMENT (SE) AND AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) (4.8/480000_) - Responsible for design, development, evaluation, verification, fielding, and in-service engineering support for ALRE and aircraft/target/weapon SE. Provides life-cycle engineering support and interfaces with other competencies to optimize systems requirements definition, design specifications, development and acquisition support, evaluation verification/certification, in-service engineering, and Fleet technical support for ALRE and SE. Develops specification and contract work statements. Conducts engineering investigations of Fleet report discrepancies, and develops service change ECPs for ALRE and SE. Executes the timely acquisition and delivery of SE and ALRE equipment for U.S. Navy, Marine Corps, and FMS case site stand-up. Executes systems engineering for SE and ALRE development programs.

SE AND ALRE TECHNOLOGY OFFICE (4.8C/48C000_) - Directs the management, coordination, integration, and transition of research and technology into aircraft weapons SE and ALRE. Advocates technology transfer within and external to competency and maximized jointness.

PLANS AND PROGRAMS (4.8D/48D000_) - Performs financial and business planning, workload analysis, and budget and financial reporting. Responsible for workload tracking and monitoring of the overall performance of the competency.

SE AND ALRE SYSTEMS ENGINEERING (4.8.1/481000_) - Directs the systems engineering for major SE/ALRE development programs. Executes SE/ALRE exploratory and advance research projects. Provides materials and environmental compatibility expertise. Conducts API and ship compatibility programs. Determines weapon system/subsystem supportability and associated SE requirements.

SE AVIONICS DEVELOPMENT PROJECTS (4.8.1.1/481100_) - Responsible for the system engineering of SE/ALRE development projects. Develops an operational requirement from a mission needs statement, then translates this requirement into a configured system meeting that need through a systematic concurrent approach to an integrated design of the product and its processes. Ensures the compatibility of all functional and physical interfaces (internal, as well as external), and confirms that the system definition and design reflect the requirements for all system elements (hardware, software, data, facilities, etc.).

SE AND ALRE DEVELOPMENT PROJECTS (4.8.1.2/481200_) - Responsible for the systems engineering of SE/ALRE development projects. Develops an operational requirement from a mission needs statement, then translates this requirement into a configured system meeting that need through a systematic concurrent

approach to an integrated design of the product and its processes. Ensures the compatibility of all functional and physical interfaces (internal, as well as external), and confirms that the system definition and design reflect the requirements for all system elements (hardware, software, data, facilities, etc.).

GENERAL TECHNOLOGY (4.8.1.3/481300_) - Responsible for executing exploratory and advanced research and development projects for SE/ALRE.

ENABLING TECHNOLOGY (4.8.1.4/481400_) - Responsible for executing core-enabling technologies throughout the SE/ALRE life cycle. Is responsible for minimizing the environmental impact of ALRE/SE. Provides a full spectrum of material and processing expertise to the development, enhancement, and maintenance of ALRE/SE systems/components.

SHIP COMPATIBILITY (4.8.1.5/481500_) - Responsible for assuring the compatibility of aviation and ship weapon systems. Provides technical requirements for aviation maintenance support facilities aboard aircraft carriers (CV/CVN), multipurpose amphibious assault ships (LHA/LHD), and helicopter amphibious assault ships (LPH) for new design/construction and active in-service-type ships. Conducts engineering analyses to determine service, weapon stowage, and SE installation requirements. Is responsible for assuring systems-level compatibility between the weapons system, the operating platform (base of operations -- usually ship or shore facility), and all associated API commodities, such as catapults, arresting gear, and handling/servicing equipment.

PLATFORM SUPPORTABILITY (4.8.1.6/481600_) - Responsible for influencing the design of aircraft and aircraft subsystems such that the requirement for maintenance and related SE is minimized. When SE is required, identifies and validates the necessary support requirements, defines the required design and performance parameters for that equipment based on operational need, and standardize wherever possible.

AVIONICS/PROPULSION SUPPORTABILITY (4.8.1.7/481700_) - Responsible for influencing the design of avionics and propulsion subsystems such that the requirement for maintenance and related SE is minimized. When SE is required, identifies and validates the

necessary support requirements, defines the required design and performance parameters for that equipment based on operational need, and standardize wherever possible.

AIRCRAFT SE AND ALRE ELECTRICAL/MECHANICAL DESIGN/ DEVELOPMENT (4.8.2/482000_) - Responsible for the design, development, and fielding of SE and ALRE systems. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE. Develops specification and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE systems.

ELECTRICAL DESIGN (ELECTRICAL/POWER) (4.8.2.1/482100_) - Responsible for the design, development, and fielding of SE and ALRE electrical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE electrical equipment. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE electrical equipment.

ELECTRICAL DESIGN (ELECTRONICS) (4.8.2.2/482200_) - Responsible for the design, development, and fielding of SE and ALRE electrical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE electrical (electronics) equipment. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE electrical (electronics) equipment.

ELECTRICAL DESIGN (CONTROLS) (4.8.2.3/482300_) - Responsible for the design, development, and fielding of SE and ALRE electrical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE electrical (controls) equipment. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE electrical (controls) equipment.

MECHANICAL DESIGN (STRUCTURAL/COMPONENT SYSTEMS) (4.8.2.4/482400_) - Responsible for the design, development, and fielding of SE and ALRE mechanical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE mechanical equipment. Develops

specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE mechanical equipment.

MECHANICAL DESIGN (HYDRAULIC POWER) (4.8.2.5/482500_) - Responsible for the design, development, and fielding of SE and ALRE mechanical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE mechanical equipment. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE mechanical equipment.

MECHANICAL DESIGN (OPTICS/MECHANISMS) (4.8.2.6/482600_) - Responsible for the design, development, and fielding of SE and ALRE mechanical equipment. Performs design studies, analyses, simulations, and evaluations related to SE and ALRE mechanical equipment. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of SE and ALRE mechanical equipment.

AVIONICS SE DESIGN (4.8.2.7/482700_) - Responsible for the design, development, and fielding of avionics SE. Performs design studies, analyses, simulations, and evaluations related to avionics SE. Develops specifications and technical data packages to support the manufacture, evaluation, and acceptance of avionics SE.

AIRCRAFT SYSTEMS SE ATE HARDWARE/SOFTWARE DESIGN/DEVELOPMENT (4.8.3/483000_) - Responsible for the design, development, and fielding of aircraft SE ATE hardware and software. Performs design studies, analyses, simulations, and evaluations related to aircraft SE ATE hardware and software. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of aircraft SE ATE hardware and software.

SE AUTOMATIC TEST EQUIPMENT (4.8.3.1/483100_) - Responsible for the design, development, and fielding of ATE SE systems software. Performs design studies, analyses, simulations, and evaluations related to ATE SE system software. Develops specifications and contract work statements. Develops technical data packages for evaluation, acceptance, and distribution of ATE SE system software.

SE AUTOMATIC TEST EQUIPMENT/CASS (4.8.3.2/483200_) - Responsible for the design, development, and fielding of ATE SE system software and CASS hardware. Performs design studies, analyses, simulations, and evaluations. Develops technical data packages for the manufacture, evaluation and acceptance, and distribution of ATE SE system software and CASS hardware.

AVIONICS SYSTEMS SE SOFTWARE (4.8.3.3/483300_) - Responsible for the design, development, and fielding of aircraft avionics systems SE software. Performs design studies, analyses, simulations, and evaluations related to aircraft avionics systems SE software. Designs, develops, and documents avionics systems SE software. Provides software acquisition support, and conducts independent verification and validation of software products. Performs life-cycle maintenance of software code and documentation.

ATE HARDWARE/SOFTWARE (4.8.3.4/483400_) - Provides hardware and software support for various ATE systems.

ELECTRONIC WARFARE (4.8.3.5/483500_) - Provides expertise in the design and development of electronic warfare support systems. Performs electronic warfare SE acquisitions, including developing requirements definitions, preparing statements of work, contract data requirements list items, and other contract data. Performs as designated Government acquisition representative on electronic warfare common, peculiar, and TPS SE procurement. Maintains laboratories to support design, development, and acquisition of electronic warfare support systems.

AIRCRAFT SE TPS DESIGN/DEVELOPMENT (4.8.4/484000_) - Performs design studies, analyses, simulations, and evaluations related to TPS. Develops specifications and contract work statements for the acquisition of TPS. Designs, develops, and documents avionics system SE software. Provides software acquisition support, and conducts independent verification and validation of software products.

TPS DESIGN AND DEVELOPMENT (4.8.4.1/484100_) - Responsible for the design, development, and fielding of TPS. Performs design studies, analyses, simulations, and evaluations related to TPS. Develops specifications and contract work statements. Develops technical data packages for the manufacture, evaluation, and acceptance of TPS.

ELECTRO-OPTICS (4.8.4.2/484200_) - Responsible for the engineering support of ATE off-load TPS development for electro-optics systems, including software and hardware design, code generation, ID design, integration, debug, limited production, and full production as related to TPS.

RADAR (4.8.4.3/484300_) - Responsible for the engineering support of ATE off-load TPS development for radar systems, including software and hardware design, code generation, ID design, integration, debug, limited production, and full production as related to TPS.

FLIGHT CONTROL (4.8.4.4/484400_) - Responsible for the engineering support of ATE off-load TPS development for flight control systems, including software and hardware design, code generation, ID design, integration, debug, limited production, and full production as related to TPS.

NAVIGATION (4.8.4.5/484500_) - Responsible for the engineering support of ATE off-load TPS development for navigation systems, including software and hardware design, code generation, ID design, integration, debug, limited production, and full production as related to TPS.

S-3 TPS (4.8.4.6/484600_) - Develops TPS for the S-3 aircraft.

CASS TPS (4.8.4.7/484700_) - Develops TPS for CASS, which will be new vice off-loads from other types of ATE.

AVIONICS TPS (4.8.4.8/484800_) - Develops TPS for various types of avionics on a variety of ATE.

RADAR (4.8.4.9/484900_) - Provides expertise in the design and development of RADAR support systems. Performs SE acquisitions, including developing requirements definitions and preparing statements of work, contract data requirements list items, and other contract data. Performs as designated Government acquisition representative on RADAR common, peculiar, and TPS SE procurement. Maintains laboratories to support design, development, and acquisition of RADAR support systems.

AVIONICS DESIGN (4.8.4.10/484J00_) - Provides engineering support for the CASS Off-load and other TPS development projects. Functions include software and hardware design, code generation, ID design, integration, debug, limited production, and full production as related to Test Program Sets (TPS).

ACQUISITION MANAGEMENT (4.8.5/485000_) - Responsible for the timely acquisition and delivery of SE and ALRE equipment for U.S. Navy, Marine Corps, and FMS case site stand-up. Ensures technical requirements and quality assurance practices are met during the acquisition process prior to SE and ALRE equipment delivery. Manages the SE requirements data process for the timely introduction of accurate data into the AUTOSERD/SERMIS system. Develops acquisition strategy plans, and manages both SE and ALRE hardware contracts to provide quality equipment, which is delivered on time, to the Fleet. Manages FMS case support throughout the case's life cycle.

AIRCRAFT SE (4.8.5.1/485100_) - Responsible for the timely acquisition and delivery of SE for U.S. Navy and Marine Corps site stand-up. Manages the SE requirement data process for the timely introduction of accurate data into the AUTOSERD/SERMIS system. Develops acquisition strategy plans and manages designated naval aviation programs to provide conforming, timely, and cost-effective equipment throughout the program/weapon system life cycle. Plans, coordinates, provides, and controls SE for timely Fleet introduction.

SHIP AND SHORE SITE STAND-UP (4.8.5.2/485200_) - Responsible for the timely acquisition and delivery of SE for U.S. Navy and Marine Corps site stand-up. Plans, coordinates, provides, and controls SE equipment for timely and effective Fleet introduction in accordance with program milestones. Provides API equipment management and engineering services to U.S. Navy and Marine Corps activities. Provides new construction ships outfitting and SE shore site assessment program material management support to the Type Commanders. Manages the CASS introduction planning process.

SE/ALRE PROCUREMENT MANAGEMENT (4.8.5.3/485300_) - Responsible for the timely acquisition and delivery of SE and ALRE equipment for U.S. Navy, Marine Corps, and FMS case site stand-up. Ensures technical requirements and quality assurance practices are met during the acquisition process prior to SE and ALRE equipment delivery. Manages both SE and ALRE hardware contracts to provide quality equipment, which is delivered on time,

to the Fleet. Plans, prepares procurement documentation for, and manages hardware and service contracts to support missions. Is responsible for all contract interface actions with other TEAM personnel, Defense Contract Management Area Officer (DCMAO), contractor personnel, and other Defense Department activities to ensure that all products and services conform to contract requirements.

GFE/CALIBRATION STANDARDS (4.8.5.4/485400_) - Responsible for the timely acquisition and delivery of SE for U.S. Navy, Marine Corps, and FMS case site stand-up. Develops acquisition strategy plans, and manages SE hardware contracts to provide quality equipment, which is delivered on time, to the Fleet. Manages FMS case support throughout the case's life cycle. Provides Calibration Standards (CALSTDs) acquisition/testing management, FMS CALSTDs case management, and General-Purpose Electronic Test Equipment (GPETE) program technical support. Provides engine system management and GFE avionics SERD management functions in identifying, planning, initiating, and managing initial outfitting requirements and resolving SE issues as appropriate.

FMS SITE STAND-UP (4.8.5.5/485500_) - Responsible for the timely acquisition and delivery of SE for FMS case site stand-up. Develops acquisition strategy plans and manages SE hardware contracts to provide quality equipment, which is delivered on time, to the FMS country. Initiates and manages acquisitions and requisitions, and directs shipment for FMS country site stand-ups.

WEAPONS/TARGETS/SUPPORT EQUIPMENT DESIGN/ DEVELOPMENT AND ISE (4.8.6/486000_) - Participates in the identification of SE operational requirements, defining those requirements within the context of the program goals, developing those electronics systems through their production and life cycles as resident experts. Is responsible for planning and performing test and evaluation and supportability of weapon systems and determining the performance, acceptability, and reliability of the associated peculiar ground SE. Provides pre-launch, and operational support services for weapon systems and test assets, weapon readiness tests and test capabilities associated with T&E efforts. Operates and maintains weapon readiness test equipment and facilities and provide consultation services on weapon readiness test technology. Conducts and provides engineering support for design, development, test, and evaluation of Target Peculiar Support Equipment.

ENGINEERING AND ACQUISITION (4.8.6.1/486100_) - Provides support equipment engineering and acquisition management skills, and is the entry point into the Weapons and Targets Support Equipment competency for acquiring support, design, development, upgrade, and modification of support equipment. Considers hardware, software, resources, facilities, technical data, requirements formulation, budgeting, technical performance measurement, and reporting during acquisition, research and development, production, test and evaluation, in-service engineering, and operational support. Develops support equipment requirements, budgets, and negotiates tasking and funding with Commodity Logistics Managers. Performs support equipment acquisition as defined in work unit assignments or Inter-Departmental Agreements. Provides support to Commodity Logistics Managers on technical issues, keeps them informed, and produces deliverables for their release.

ELECTRONIC AND AUTOMATED TEST SYSTEMS (4.8.6.2/486200_) - Provides the expertise for the design, development, interface, production, evaluation, verification, validation, upgrade, and modification of electronic and electrical hardware and software. Provides technical guidance and assistance in the identification of SE operational requirements; definition requirements; and development of studies, plans, procedures, Statements Of Work (SOW), and other initiatives to meet IPT goals. Provides the engineering resources to develop and/or review SOWs Engineering Change Proposals (ECPs), NOR's, SDRs, Technical Manuals, SECs, Software Description Documentation, and other reports and plans in support IPTs.

TEST TECHNOLOGY (4.8.6.3/486300_) - Operates and maintains weapon readiness test equipment and facilities, and provides consultation services on weapon readiness test technology. Performs assembly, preparation, and functional testing of weapons in support of flight and ground testing. Functional testing includes system, subsystem, instrumentation units, modules, and components. Provides technical expertise in the design, development, testing, evaluation, modification, and installation of weapons for test and evaluation and Fleet training. Modification and retrofitting of weapon systems with prototype and operational kits for test and evaluation programs, and fleet training. Provides technical field support to other field activities concerning weapons systems, subsystems, and test equipment.

TARGETS AND MECHANICAL ENGINEERING (4.8.6.4/486400_)

- Provides engineering support for design, development, modifications, product improvement, and test and evaluation of Target Peculiar Support Equipment. Investigates and resolves design deficiency problems, provides in-service engineering support, and is the software support activity for Target Support Equipment. Prepares and reviews Target Systems and Target Support Equipment ECPs, RFW, and RFD. Maintains Target Support Equipment Depot maintenance capabilities. Performs T&E, and product improvement of electronic, mechanical, electro-mechanical, and hydraulic support equipment. Performs mechanical stress analysis on new designs to ensure safe operation.

AIRCRAFT SE ELECTRICAL/MECHANICAL IN-SERVICE ENGINEERING (4.8.7/487000_) - Directs Electrical/Mechanical Support Equipment In-Service Engineering Competency. Conducts engineering studies related to Fleet-reported discrepancies regarding electrical/mechanical SE. Initiates design changes to correct Fleet-reported discrepancies.

PROPULSION SE ISE (4.8.7.1/487100_) - Responsible for in-service engineering support for propulsion system SE.

AIRFRAME/SERVICING SE ISE (4.8.7.2/487200_) - Responsible for in-service engineering support for airframe/handling/servicing/armament SE.

NON-AVIONICS (4.8.7.3/487300_) - Performs mechanical and electrical engineering ISE functions supporting various types of SE.

AVIONICS SE (4.8.7.4/487400_) - Responsible for functions to provide in-service engineering support for select avionics SE.

NON-AVIONICS SE (4.8.7.5/487500_) - Provides engineering support of common and peculiar non-avionics aircraft SE. Performs engineering investigations, analyzes and develops SE changes, fields Fleet inquiries, analyzes processes for improvement, performs simulations of operational problems on in-house equipment, and responds to requests for engineering assistance from the industrial activity.

ATE/HARDWARE, SOFTWARE AND IN-SERVICE ENGINEERING (4.8.8/488000_) - Directs ATE/Hardware, Software and In-Service Engineering Competency. Conducts engineering studies related to Fleet-

reported discrepancies for ATE/hardware and software. Initiates design changes to correct Fleet-reported discrepancies. Performs ATE configuration management, and prepares SE changes for ATE/hardware and software.

EW (4.8.8.1/488100_) - Responsible for basic design engineering and maintenance engineering for assigned systems, including common SE and associated software used to fault-isolate defective Shop-Replaceable Assemblies (SRAs) within Weapon Replaceable Assemblies (WRAs). Also performs end-to-end tests on avionics SRAs and WRAs. Conducts engineering investigations concerning common SE, and prepares SE changes and Engineering Change Proposals (ECPs).

EW VSWR (4.8.8.2/488200_) - Responsible for basic design engineering and maintenance engineering for assigned systems, including common SE used to perform end-to-end tests and fault isolation in avionics systems and associated cables, which are installed in the aircraft at Fleet organizational sites. Responsible for maintaining both ATE hardware and software and proposing SE changes associated with the common SE.

ATE HARDWARE/SOFTWARE (4.8.8.3/488300_) - Provides hardware ISE support for assigned ATE.

ATE SYSTEMS (4.8.8.4/488400_) - Provides software ISE support for assigned ATE.

ASW (4.8.8.5/488500_) - Responsible for basic design engineering and maintenance engineering for assigned systems, including engineering investigations, analyses, and development of SE changes. Fields Fleet inquiries and analyzes processes for improvement for ASW common SE.

RADAR NAVIGATION (4.8.8.6/488600_) - Responsible for the engineering support of common SE used to support airborne RADAR and navigational systems. Performs engineering investigations, and prepares resulting SE changes associated with the common SE. Performs ATE/configuration management, and manages funding requirements for assigned systems.

SE ATE/TPS ISE (4.8.8.7/488700_) - Responsible for aircraft system SE ATE/TPS hardware and software.

AIRCRAFT SE TPS IN-SERVICE ENGINEERING (4.8.9/489000_) - Directs the Aircraft SE TPS In-Service Engineering Competency. Conducts engineering studies related to Fleet-reported discrepancies for aircraft SE TPS. Initiates design changes to correct Fleet-reported discrepancies. Responsible for preparing SE changes and aircraft SE TPS configuration control.

ASW (4.8.9.1/489100_) - Responsible for aircraft SE TPS, including basic design engineering and maintenance engineering for peculiar or noncommon ASW TPS, maintenance of all aspects of the TPS (both hardware and software), upgrades, and configuration management and acquisition functions.

RADAR NAVIGATION (4.8.9.2/489200_) - Responsible for aircraft SE TPS, including basic design engineering and maintenance engineering for peculiar or noncommon RADAR or navigational TPS. Maintains all aspects of the TPS, including acquisition, support, and configuration management of the hardware and software. -Responsible for preparing SE changes and securing and managing the funds associated with SE changes.

TPS ISE (4.8.9.3/489300_) - Provides TPS ISE support for various types of non-CASS ATE.

F/A-18 (4.8.9.4/489400_) - Provides TPS ISE for the F/A-18 program.

AVIONICS (4.8.9.5/489500_) - Provides TPS ISE support for the CASS program, excluding the functions supported by the F/A-18 level 4 organization.

AV-8/V-22/H-60 ATE TPS (4.8.9.6/489600_) - Provides basic design engineering and maintenance engineering for assigned systems and TPS, including Electrical Equipment Test Set (EETS), AN/USM-604 hardware, control and support software, EETS self test and CAL software, EETS SRA tester and programs, ATE common computer system and test equipment acquisition and support, ATE/TPS acceptance testing, ATE/TPS configuration management, application TPS, V-22 acquisition support, and aircraft carrier field team support.

AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) ISE (4.8.10/48J000_) - Directs the ALRE In-Service Engineering Competency. Is responsible for managing the engineering people, processes, and

facilities required to support IPTs and enterprise functions in the in-service engineering of ship and shore ALRE systems.

LAUNCHER ISE (4.8.10.1/48J100_) - Directs the Launcher ISE Competency. Responsible for managing the engineering people, processes, and facilities required to support IPTs and enterprise functions for in-service engineering of aircraft launcher systems.

RECOVERY ISE (4.8.10.2/48J200_) - Responsible for in-service engineering of aircraft recovery systems.

TERMINAL GUIDANCE (4.8.10.3/48J300_) - Responsible for in-service engineering of aircraft terminal guidance systems.

PERFORMANCE AND CERTIFICATION (4.8.10.4/48J400_) - Responsible for the performance and certification of ALRE systems.

FLEET LIAISON (4.8.10.5/48J500_) - Responsible for functions during the development of proposed ALRE system modifications. Provides an operator and maintainer viewpoint during service change development, engineering investigations, QDR, HMR, TPDR, and CASREP responses. Tracks/reports ALRE conference and ABMA action items.

AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT (ALRE) FLEET TECHNICAL SUPPORT (4.8.11/48K000_) - Directs the ALRE Fleet Technical Support Competency. Is responsible for managing the engineering people, processes, and facilities required to support IPTs and enterprise functions. Directs the efforts of ASIR, CAFSU, and NASU technical representatives in providing onsite Type Commander support with respect to ship and shore installed ALRE systems.

AERONAUTIC SHIP INSTALLATION REPRESENTATIVE (ASIR) SURFLANT (4.8.11.1/48K100_) - Responsible for functions during installation operations, overhaul, and certification of ALRE systems installed on-board air-capable ships. Provides onsite technical expertise to the Type Commander.

AERONAUTIC SHIP INSTALLATION REPRESENTATIVE (ASIR) SURFPAC (4.8.11.2/48K200_) - Responsible for functions during installation operations, overhaul, and certification of ALRE systems installed on-board air-capable ships. Provides onsite technical expertise to the Type Commander.

CARRIER AND AIRFIELD SERVICE UNIT (CAFSU) AIRLANT (4.8.11.3/48K300_) - Responsible for functions during installation operations, overhaul, and certification of ALRE systems installed on-board CV/CVN and at shore stations. Provides onsite technical expertise to the Type Commander.

CARRIER AND AIRFIELD SERVICE UNIT (CAFSU) AIRPAC (4.8.11.4/48K400_) - Responsible for functions during installation operations, overhaul, and certification of ALRE systems installed on-board CV/CVN and at shore stations. Provides onsite technical expertise to the Type Commander.

EXPEDITIONARY AIRFIELD SERVICE UNIT (EASU) (4.8.11.5/48K500_) - Directs the efforts of EASU technical representatives, in support of Marine Corps Type Commanders, during the installation, operation, maintenance overhaul, and certification of expeditionary air fields, field lighting, and M-21 arresting gear.

PRODUCT EVALUATION/VERIFICATION (4.8.12/48L000_) - Responsible for functions to conduct full-scale evaluation and verification of ALRE and SE. Directs the evaluation and verification of the development, first article testing, acceptance, engineering investigation, and certification of ALRE and SE.

ALRE/SE EVALUATION/VERIFICATION (4.8.12.1/48L100_) - Responsible for ALRE evaluation/verification. Establishes requirements and documentation to evaluate developmental design, conducting and/or supporting evaluations for ALRE and SE.

SE PLATFORM EVALUATION/ VERIFICATION (4.8.12.2/48L200_) - Responsible for the functions of platform SE evaluation and verification. Is responsible for the operation and maintenance of the SE Evaluation Facility at Patuxent River. Establishes requirements and documentation to evaluate developmental design, conducting and/or supporting evaluations for SE.

SE PROPULSION EVALUATION/ VERIFICATION (4.8.12.3/48L300_) - Responsible for the functions of propulsion SE evaluation and verification. Is responsible for the operations and maintenance of the Uninstalled Engine Test Facility at Patuxent River. Establishes requirements and documentation to evaluate the developmental design, conducting and/or supporting evaluations for SE.

SE AVIONICS EVALUATION/VERIFICATION (4.8.12.4/48L400_) - Responsible for functions of avionics SE evaluation and verification. Is responsible for the operation and maintenance of the Avionics SE Lab and CASS Evaluation/Verification Facility at Patuxent River. Establishes requirements and documentation to evaluate developmental design, conducting and/or supporting evaluations for SE.

INSTRUMENTATION ENGINEERING (4.8.12.5/48L500_) - Responsible for functions of technology acquisition, system acquisition, and product evaluation for the ALRE and SE system and components. Provides instrumentation engineering of ALRE/SE systems and components.

LABORATORIES AND CALIBRATION (4.8.12.6/48L600_) - Responsible for the operation of the laboratory and maintenance, modification, and modernization of the ALRE calibration systems.

DATA PROCESSING, INSTRUMENTATION, AND MAINTENANCE (4.8.12.7/48L700_) - Responsible for the operation of the data processing systems, maintenance, and operation of the data acquisition equipment used by the Product Evaluation/Verification Competency.

FACILITIES/EQUIPMENT MANAGEMENT AND CONTROL (4.8.12.8/48L800_) - Responsible for managing site engineering, planning, scheduling, and technical services required to support ALRE and SE system IPTs. Coordinates facility, operational, and maintenance requirements of the test sites.

SHIPBOARD ALRE OPERATIONS AND MAINTENANCE (4.8.12.9/48L900_) - Responsible for the management/coordination of aircraft operations. Ensures personnel are familiar with operational instructions. Conducts the launching and recovery of aircraft and deadloads. Ensures the readiness of catapult and arresting gear equipment in support of program requirements for product verification and evaluations.

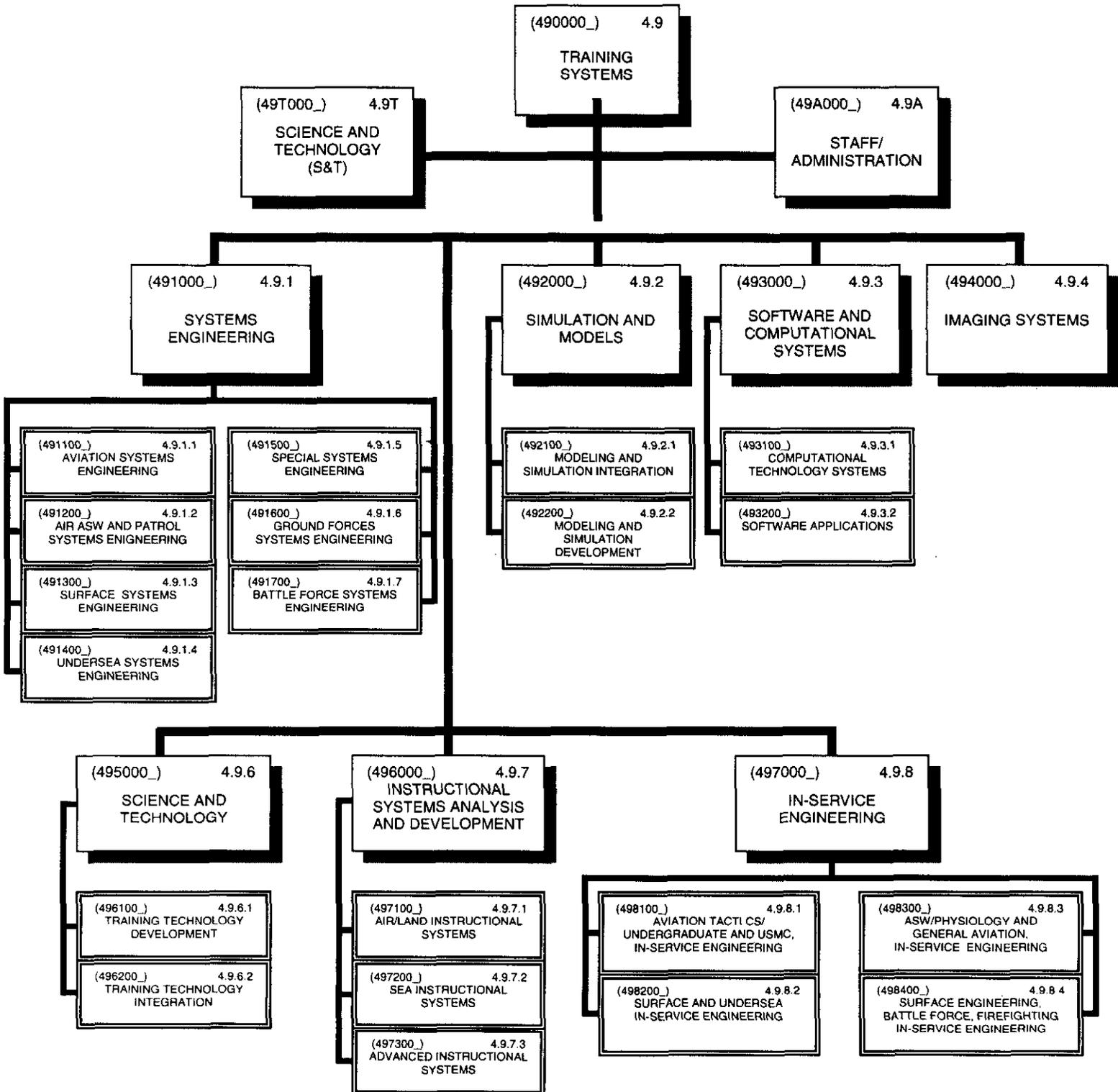
LAUNCH/RECOVERY SYSTEMS SUPPORT (4.8.12.10/48LJ00_) - Responsible for the depot-level repair and maintenance of existing and prototype launch and recovery systems, as well as the operation of unique systems such as the Jet Car Track Site. Directs and manages the efforts of L&R team leaders, and coordinates other services required for program/project support.

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SE/ALRE MANUFACTURING AND PROTOTYPING (4.8.13/48M000_) -
Provides manufacturing and prototyping services for SE and ALRE components and systems. Efforts include producibility analysis, production engineering, fabrication of demonstration hardware, and critical component manufacturing.

**TRAINING SYSTEMS
4.9/490000_**



TRAINING SYSTEMS (4.9/490000_) - Provides the resources to execute the planning, design, development, acquisition, and life cycle support of Navy and various EDT training systems. Included in the processes are Systems Engineering, Simulation and Models, Software and Computational Systems, Imaging Systems, Science and Technology, Instructional Systems Analysis and Development, and In-Service Engineering.

SCIENCE AND TECHNOLOGY (S&T) (4.9T/49T000_) - Provides the resources to manage NAWCTSD's 6.1 through 6.3 programs as well as other research programs funded by DOD, ARPA, FAA, and other sponsors. Research and development managed by the Office covers a wide spectrum and supports naval training for all warfare areas. Manages the NAWCTSD's Small Business Innovative Research (SBIR) program and coordinates all programs related to technology transfer. Also provides TEAM S&T budget tracking, proposal evaluation, program reviews, and technology needs documentation. Coordination of the Navy Science Advisory Program (NSAP) is also performed. The NAWCTSD S&T Office is Training Systems Engineering Competency's component of the Naval Aviation Science and Technology Office (NAVSTO), 4.0T. As such, coordinates all aviation related research projects with the NAVSTO and represent the NAWCTSD in all NAVSTO activities. Additionally, provides a chairperson for the TEAM's Training Simulation and Modeling Product Line Team.

STAFF/ADMINISTRATION (4.9A/49A000_) - Provides the resources to execute the various administrative demands placed on the Training Systems Competency. Included in this are: manpower, workload, and budgeting; Cost Analysis and Estimation; Systems Engineering Processes; Technical Documentation; Quality, Reliability, and Maintainability; System Safety; and Data Requirements Review Process.

SYSTEMS ENGINEERING (4.9.1/491000_) - Provides the resources to execute the planning, design, development, acquisition, and life cycle support of weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

AVIATION SYSTEMS ENGINEERING (4.9.1.1/491100_) – Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of aviation weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

AIR ASW AND PATROL SYSTEMS ENGINEERING (4.9.1.2/491200_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of Air ASW and Patrol weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

SURFACE SYSTEMS ENGINEERING (4.9.1.3/491300_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of surface weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

UNDERSEA SYSTEMS ENGINEERING (4.9.1.4/491400_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of undersea weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

SPECIAL SYSTEMS ENGINEERING (4.9.1.5/491500_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of aviation and general weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

GROUND FORCES SYSTEMS ENGINEERING (4.9.1.6/491600_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of Ground Forces weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

BATTLE FORCE SYSTEMS ENGINEERING (4.9.1.7/491700_) - Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of battle force simulation weapons and sensors system simulation, environmental simulation, and tactical simulation for training equipment.

SIMULATION AND MODELS (4.9.2/492000_) - Provides the resources to execute the planning, design, development, acquisition, and life cycle support of simulation and models for weapons and sensor systems, environmental and tactical simulations, and distributed interactive simulation for training equipment.

MODELING AND SIMULATION INTEGRATION (4.9.2.1/492100_)

- Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support in the integration of modeling and simulation for weapons, aeronautical performance, sensor systems, environmental and tactical simulations, and distributed interactive simulation for training equipment.

MODELING AND SIMULATION DEVELOPMENT (4.9.2.2/492200_)

- Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of modeling and simulation research and development for weapons and sensor systems, environmental and tactical simulations, and distributed interactive simulation for training equipment.

SOFTWARE AND COMPUTATIONAL SYSTEMS (4.9.3/493000_)

- Provides the resources to execute the planning, design, development, acquisition, and life cycle support of computational training systems software, instructional subsystems, computer operating systems, architecture, reusable software, memory systems, and networking.

COMPUTATIONAL TECHNOLOGY SYSTEMS (4.9.3.1/493100_)

- Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of computational technology of prototyping instructional subsystems, computer operating systems, computer architecture, memory systems, and distributed networking applied to training simulation.

SOFTWARE APPLICATIONS (4.9.3.2/493200_)

- Provides the resources necessary to execute the planning, design, development, acquisition, and life cycle support of training systems software, instructional subsystems, computer software systems architecture, reusable software, memory systems, and networking applied to training simulation.

IMAGING SYSTEMS (4.9.4/494000_) - Provides the resources to execute the planning, design, development, acquisition, and life cycle support of training equipment displays, image generators, and visual databases.

SCIENCE AND TECHNOLOGY (4.9.6/496000_) - Provides the resources to execute the planning, design, development, acquisition, and support of training systems research and development, research transition, prototyping, technology insertion, and technology transfer.

TRAINING TECHNOLOGY DEVELOPMENT (4.9.6.1/496100_) - Provides the resources necessary to plan and execute training systems technology research and development, research transition, prototyping, technology insertion, and technology transfer.

TRAINING TECHNOLOGY INTEGRATION (4.9.6.2/496200_) - Provides the resources necessary to plan, execute, and integrate training systems research and development, research transition, prototyping, technology insertion, and technology transfer.

INSTRUCTIONAL SYSTEMS ANALYSIS AND DEVELOPMENT (4.9.7/497000_) - Provides the resources to analyze training requirements, define functional requirements, recommend training/trainer alternatives, develop/acquire training products, and provide life cycle support for ISD products for aviation, ground, surface and undersea forces and other services and organizations.

AIR/LAND INSTRUCTIONAL SYSTEMS (4.9.7.1/497100_) - Provides the resources necessary to analyze training requirements, define functional requirements, recommend training/trainer alternatives, develop/acquire training products, and provide life cycle support for ISD products for aviation and ground forces and other services and organizations.

SEA INSTRUCTIONAL SYSTEMS (4.9.7.2/497200_) - Provides the resources necessary to analyze training requirements, define functional requirements, recommend training/trainer alternatives, develop/acquire training products, and provide life cycle support for ISD products for surface and undersea forces and other services and organizations.

ADVANCED INSTRUCTIONAL SYSTEMS (4.9.7.3/497300_) - Provides the resources necessary to analyze training requirements, define functional requirements, recommend training/trainer alternatives, develop/acquire training products, and provides life cycle support for ISD products in support of special emphasis, multi-platform, and advanced technology programs.

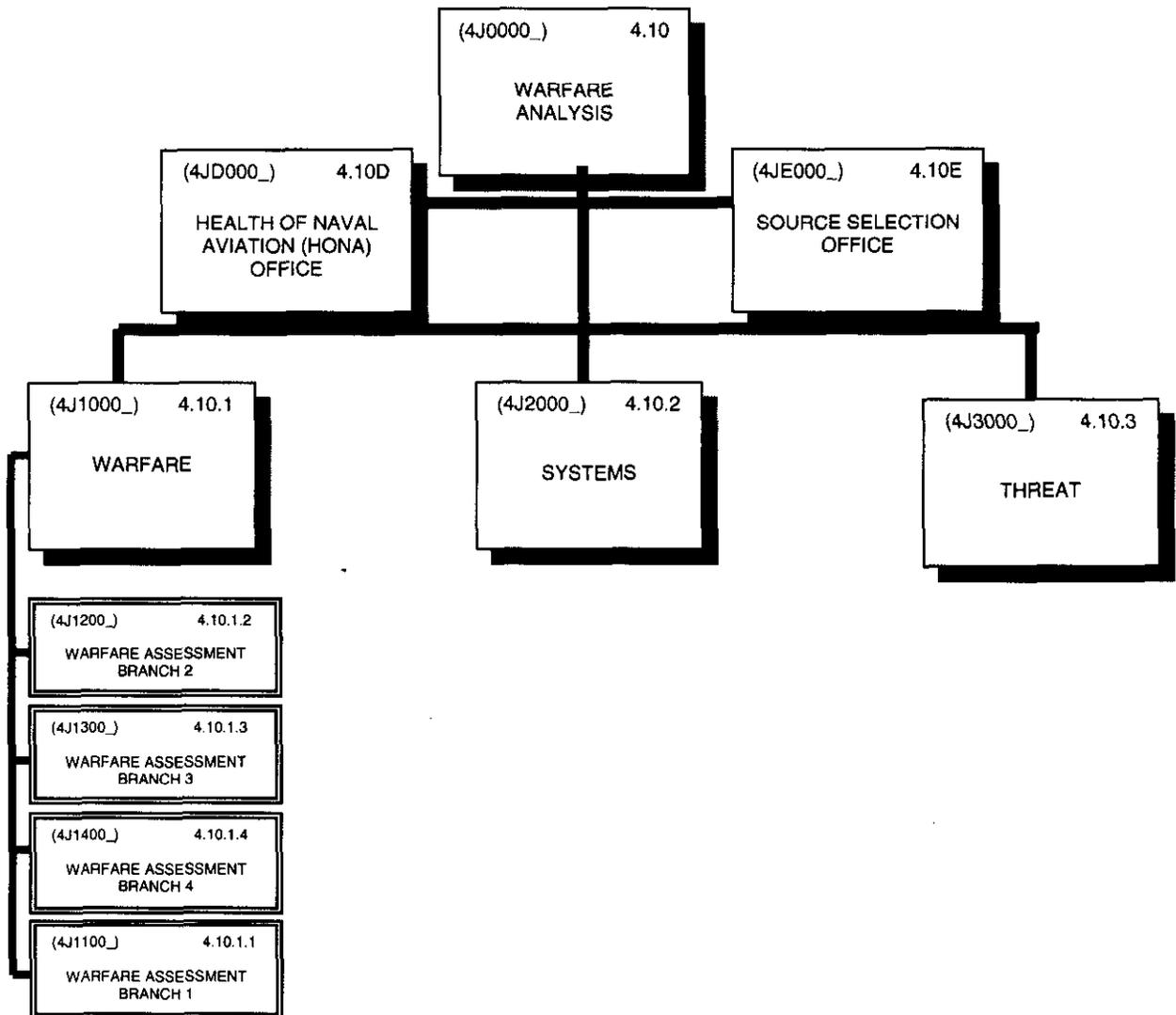
IN-SERVICE ENGINEERING (4.9.8/498000_) - Provides the resources to execute the life cycle support of training equipment by providing software/hardware-engineering expertise, support configuration management, and provide ongoing interface with customer/fleet users, onsite problem analysis, and installation and removal of training systems.

AVIATION TACTICS/UNDERGRADUATE AND USMC, IN-SERVICE ENGINEERING (4.9.8.1/498100_) - The people, knowledge, processes, and facilities necessary to execute the life cycle support of Aviation Tactics, Aviation Undergraduate, and USMC training equipment by providing software/hardware engineering expertise, support configuration management, and provide ongoing interface with customer/fleet users, onsite problem analysis, and installation and removal of training systems.

SURFACE AND UNDERSEA IN-SERVICE ENGINEERING (4.9.8.2/498200_) - Provides the resources necessary to execute the life cycle support of Surface Engineering, Surface Tactics, Undersea training equipment by providing software/hardware engineering expertise, support configuration management, and provides ongoing interface with customer/fleet users, onsite problem analysis, and installation and removal of training systems.

ASW/PHYSIOLOGY AND GENERAL AVIATION, IN-SERVICE ENGINEERING (4.9.8.3/498300_) - Provides the resources necessary to execute the life cycle support of aviation ASW, Physiology and general aviation training equipment by providing software/hardware engineering expertise, support configuration management, and provides ongoing interface with customer/fleet users, onsite problem analysis, and installation and removal of training systems.

SURFACE ENGINEERING, BATTLE FORCE, FIREFIGHTING IN-SERVICE ENGINEERING (4.9.8.4/498400_) - Provides the resources necessary to execute the life cycle support of surface engineering, battle force, fire fighting training equipment by providing software/hardware engineering expertise, support configuration management, and provides ongoing interface with customer/fleet users, onsite problem analysis, and installation and removal of training systems.

**WARFARE ANALYSIS
4.10/4J0000_**

WARFARE ANALYSIS (4.10/4J0000_) - Provides the resources to support IPTs, EDTs, and ETs to research and analyze and aid key decision makers in assessing Navy needs and operational requirements. Aviation analysis is conducted in support of early conceptual design and trade studies, requirements generation, acquisition decision making (including AoAs), general naval aviation related analysis and source selection. Analytic tools include databases and a wide variety of computer-based models and simulations. Personnel skills include the ability to understand and portray naval warfare operations (including joint operations), provide threat and scenario definitions and generate appropriate operational concepts in defined mission areas. Develops and analyzes mission, system, and subsystem requirements and assesses technological priorities in terms of effectiveness and military worth.

HEALTH OF NAVAL AVIATION (HONA) OFFICE (4.10D/4JD000_) - Coordinates and facilitates the development of automated information support on aircraft and other major Naval Aviation systems. Provides an informational and analytical capability that supports strategic naval aviation planning, programming, and budgeting. Responsibility includes the collaborative collection and analysis of program cost and inventory data from numerous sources, and the delivery of naval aviation information to senior decision-makers for their evaluation and consideration. The competency is accountable to COMNAVAIRSYSCOM, the PEOs, and N-88 for quality of the data and analysis and timeliness.

SOURCE SELECTION OFFICE (4.10E/4JE000_) - Provides guidance, processes, and evaluation training for major and less-than-major source selection and Source Selection Evaluation Board (SSEB) chairmanship and SSEB Assistant Chairmanships. This element has overall responsibility for the formal source selection process to be utilized by the TEAM and provides the resources to facilitate the process on behalf of the Program Management Competency (1.0) and the PEOs.

WARFARE (4.10.1/4J1000_) - Provides necessary resources to assess the performance of existing or conceptual warfare systems in projected operational environments. Includes the analytic process of quantifying the offensive and defensive capabilities of friendly and potentially hostile military systems at the mission and campaign levels in operationally realistic scenarios. Capabilities include the analysis of the overall combat capabilities of multiple integrated systems and systems of systems in achieving military objectives. Maintains analysis expertise in the areas of strike warfare, antisubmarine warfare, anti-surface warfare, network centric warfare, tactical surveillance, C4ISR, reconnaissance, and mission support of military operations.

WARFARE ASSESSMENT BRANCH 1 (4.10.1.1/4J1100_) - Assesses warfare system performance in the operational environment, with primary emphasis on quantitative analysis.

WARFARE ASSESSMENT BRANCH 2 (4.10.1.2/4J1200_) - Assesses warfare system performance in the operational environment, with primary emphasis on conceptual analysis.

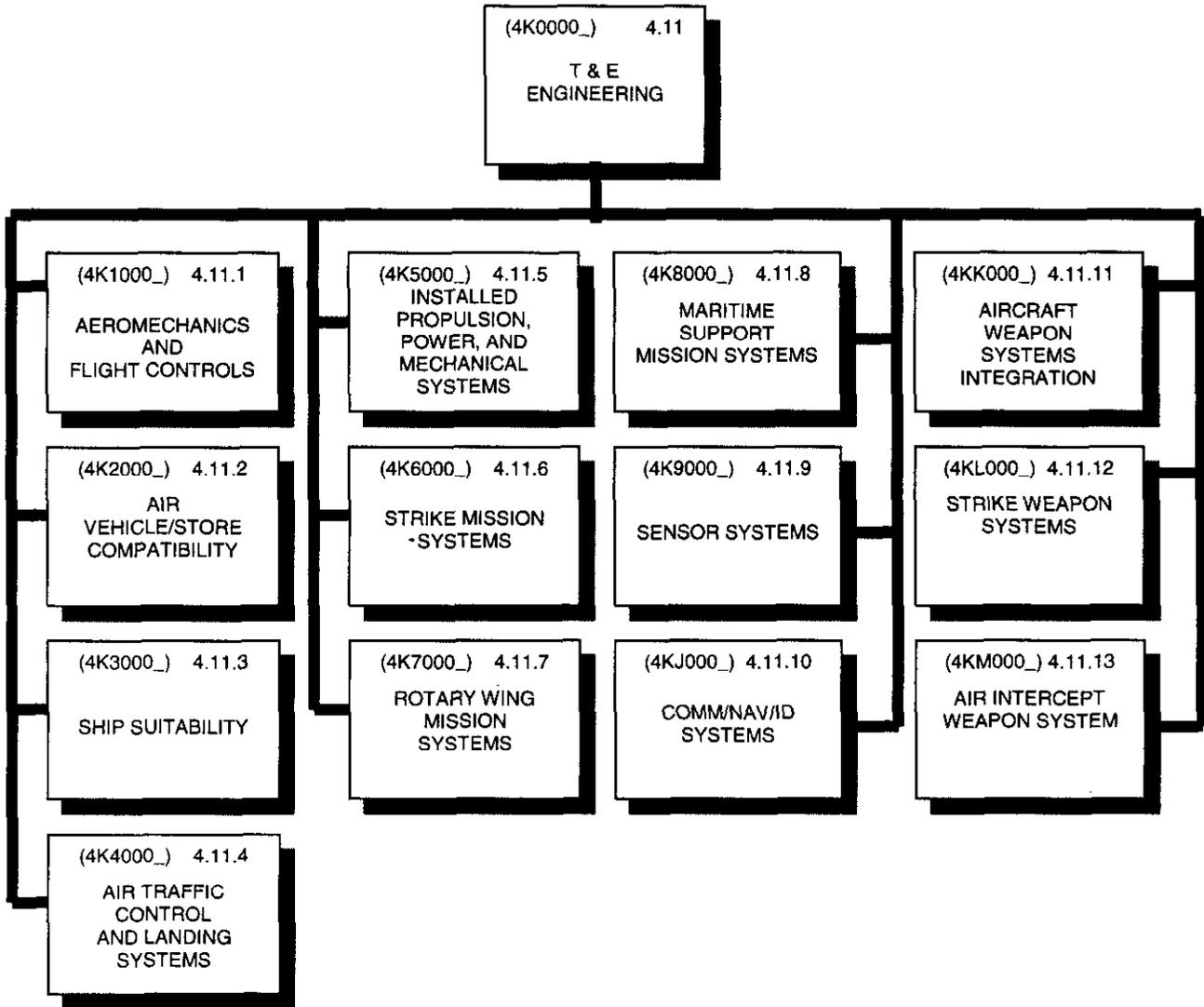
WARFARE ASSESSMENT BRANCH 3 (4.10.1.3/4J1300_) - Assesses warfare system performance in the operational environment, with primary emphasis on maritime surveillance and anti-submarine warfare.

WARFARE ASSESSMENT BRANCH 4 (4.10.1.4/4J1400_) - Assesses warfare system performance in the operational environment, with primary emphasis on fundamental analysis.

SYSTEMS (4.10.2/4J2000_) - Provides the resources to evaluate the engineering level performance of a system. This includes analyses of various aspects of the performance of weapon systems, aircraft systems, command and control systems, etc. Possesses the ability to integrate and synthesize the elements of a system to determine its performance as the architectural design evolves and iterates. The information developed by the division can be used to support the assessment of systems of systems in higher level analyses. This level 3 organization has specific expertise in the areas of conceptual aircraft design (manned or unmanned) and missile system performance. This includes the disciplines of aerodynamics, propulsion, avionics, survivability, detection, targeting, guidance, fusing, lethality (warhead effectiveness), and the risk/cost/weight tradeoffs necessary to meet requirements.

THREAT (4.10.3/4J3000_) – Provides the resources to perform analysis of current and projected threat forces, weapon systems, and their deployment and employment, including the acquisition, storage, retrieval and dissemination of threat information and performance data. Also includes the Special Security Officer function needed to protect highly classified intelligence information with personnel, physical, computer, and document security measures.

**T & E ENGINEERING
 4.11/4K0000_**



T & E ENGINEERING (4.11/4K0000_) - Provides the resources to provide full life cycle test and evaluation engineering, including the planning and conduct of tests, and reporting of test results of aircraft and weapons systems. The principal focus is support of IDTs, EDTs, and ETs. Test engineers lead and manage the T&E efforts and are responsible for design, documentation, and maintaining the currency of the T&E process; for identification of critical program test elements; for translating engineering test requirements into test plans; for conduct of tests; for the engineering veracity of the test data; for definition of functional requirements for future test facilities, equipment, and instrumentation requirements and integrating these requirements into facility improvement plans. Test engineers support the IPT through participation in the development of system specifications and program T&E planning documents and product

functional requirements; in the evaluation and assessment of test results and determination of system performance, mission suitability, and readiness for the user; and in translating test data into design improvement and deficiency corrections.

AEROMECHANICS AND FLIGHT CONTROLS (4.11.1/4K1000_) -

Provides the resources to conduct fixed and rotary wing aircraft ground and flight test in the areas of stability and control, flight controls, performance, structures, loads, flutter, and dynamics.

AIR VEHICLE/STORE COMPATIBILITY (4.11.2/4K2000_) -

Provides the resources to determine air vehicle/store compatibility of all fixed and rotary wing aircraft armament systems, their externally and internally carried stores, and items, which are released or dispensed from the aircraft. Systems tested include armament release and control systems, stores suspension and release equipment, internal and external guns, towed and powered targets, air-launched weapons, air-launched expendables, and jettisonable pods. Types of work include physical/electrical/structural interface, form fit and function flight captive carriage tests, weapon separation tests, ballistic accuracy tests, fragment hazard analysis, generation of safe escape data weapon delivery parameters, and Tactical Manual weapons descriptions.

SHIP SUITABILITY (4.11.3/4K3000_) -

Provides the resources to conduct tests to determine air vehicle compatibility with shipboard operating environments and shipboard launch and recovery systems. The support includes aircraft handling qualities and performance characteristics, structural and functional integrity, and aircraft compatibility with launch and recovery equipment for manned and unmanned, conventional and V/STOL, fixed and rotary wing aircraft.

AIR TRAFFIC CONTROL AND LANDING SYSTEMS (4.11.4/4K4000_) -

Provides the resources necessary to support development and test of both shipboard and shore based air traffic control and landing systems for manned and unmanned air vehicles and related aircraft avionics sub-systems. Aircraft evaluations consist of handling qualities, engine/approach power performance, avionics receiver, data processors, sensors, automatic flight control and display system, data links, radar transponders, antenna performance, and total integrated system performance.

INSTALLED PROPULSION, POWER, AND MECHANICAL SYSTEMS

(4.11.5/4K5000_) - Provides the resources to plan and conduct tests and report test results of fixed and rotary wing aircraft propulsion, power, and mechanical systems.

STRIKE MISSION SYSTEMS (4.11.6/4K6000_) - Provides the resources needed for integrated avionics testing for fighter/attack aircraft. Evaluates those functions required to perform the mission such as the level of performance of embedded integrated avionics systems and sub-systems, platform level tactical software upgrades, and interoperability with affiliated ships, aircraft, mission support devices, and other platforms.

ROTARY WING MISSION SYSTEMS (4.11.7/4K7000_) - Provides the resources needed for testing of rotary wing mission systems. Evaluates the level of performance of integrated avionics systems, integrated helicopter peculiar avionics subsystems, and interoperability with affiliated ships, aircraft, mission support devices, and other platforms.

MARITIME SUPPORT MISSION SYSTEMS (4.11.8/4K8000_) - Provides the resources necessary to support total system testing of maritime support mission systems. Provides the planning, conduct of test and evaluation and reporting of test results for mission systems installed and integrated in maritime surveillance, airborne early warning, strategic communications; and special mission aircraft weapon systems.

SENSOR SYSTEMS (4.11.9/4K9000_) - Provides the resources needed to conduct integrated test and evaluation of electronic warfare, electro-optical, radar, acoustic and non-acoustic sensors.

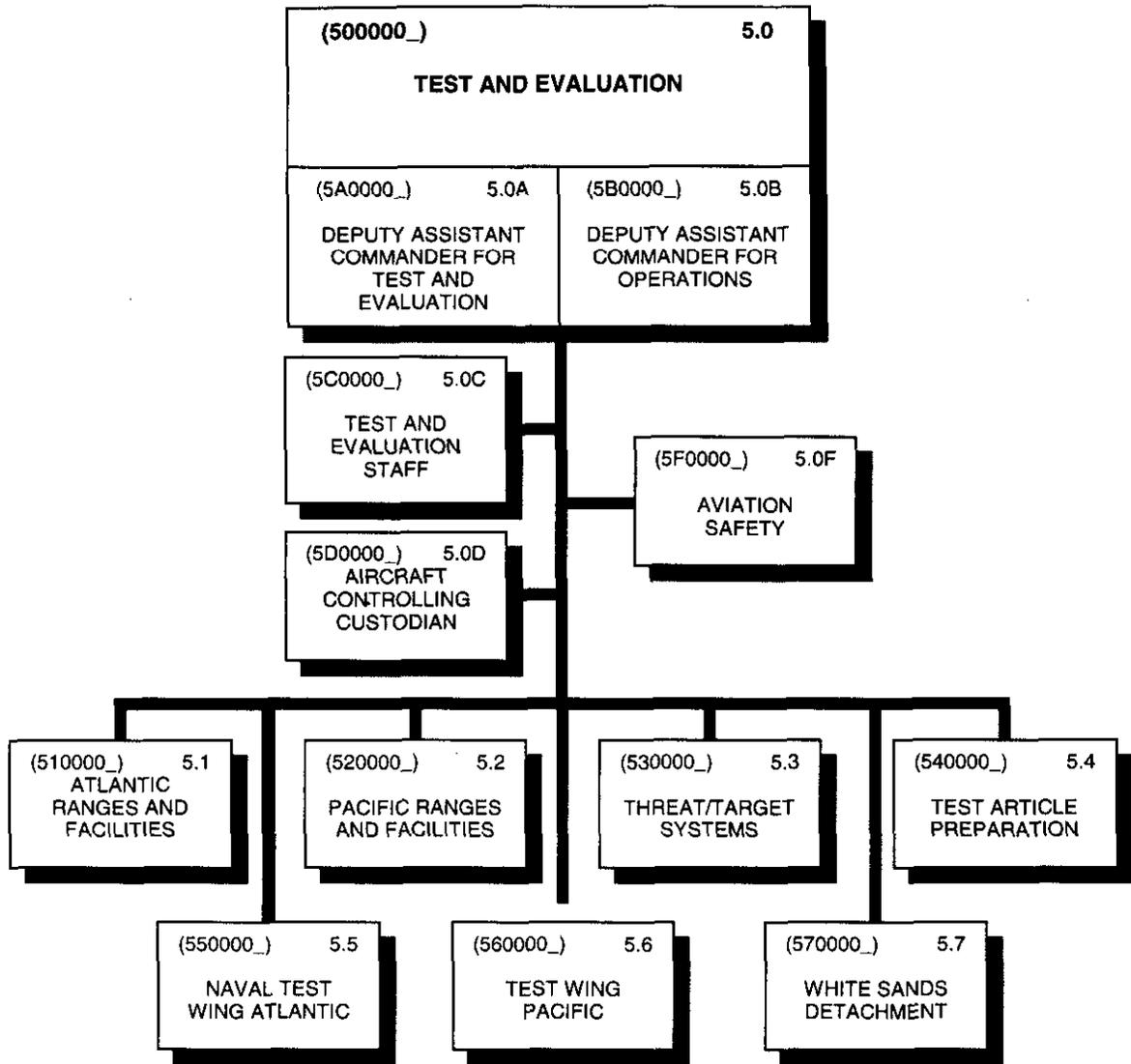
COMM/NAV/ID SYSTEMS (4.11.10/4KJ000_) - Provides the resources to perform integrated test and evaluation of communications, navigation, identification, and antenna systems.

AIRCRAFT WEAPON SYSTEMS INTEGRATION (4.11.11/4KK000_) - Provides the resources needed to perform test and evaluation of aircraft integrated weapon systems software and hardware on tactical platforms.

STRIKE WEAPON SYSTEMS (4.11.12/4KL000_) - Provides the resources for the planning and conduct of tests, and reporting of test results of weapon systems and ancillary equipment associated with the planning and execution of strike weapon missions.

AIR INTERCEPT WEAPON SYSTEMS (4.11.13/4KM000_) - Provides the resources to perform test and evaluation of air and ship launched intercept weapon systems.

TEST AND EVALUATION
5.0/500000_



TEST AND EVALUATION (5.0/500000_) - Provides the resources required to support the planning, conduct, monitoring, and reporting of tests for the development, production, evaluation, and fielding of air warfare systems, subsystems, and support systems.

DEPUTY ASSISTANT COMMANDER FOR TEST AND EVALUATION (5.0A/5A0000_)- Assists the level I Competency Manager in the planning/implementation, formulation of competency policy and guidance, competency work processes, and training program requirements. Provides executive management continuity, policy guidance and direction, and corporate management planning of test and evaluation matters within the Competency and ensures the development of the people, processes, and facilities necessary to support the acquisition and support of Naval Aviation Systems.

DEPUTY ASSISTANT COMMANDER FOR OPERATIONS (5.0B/5B0000_)

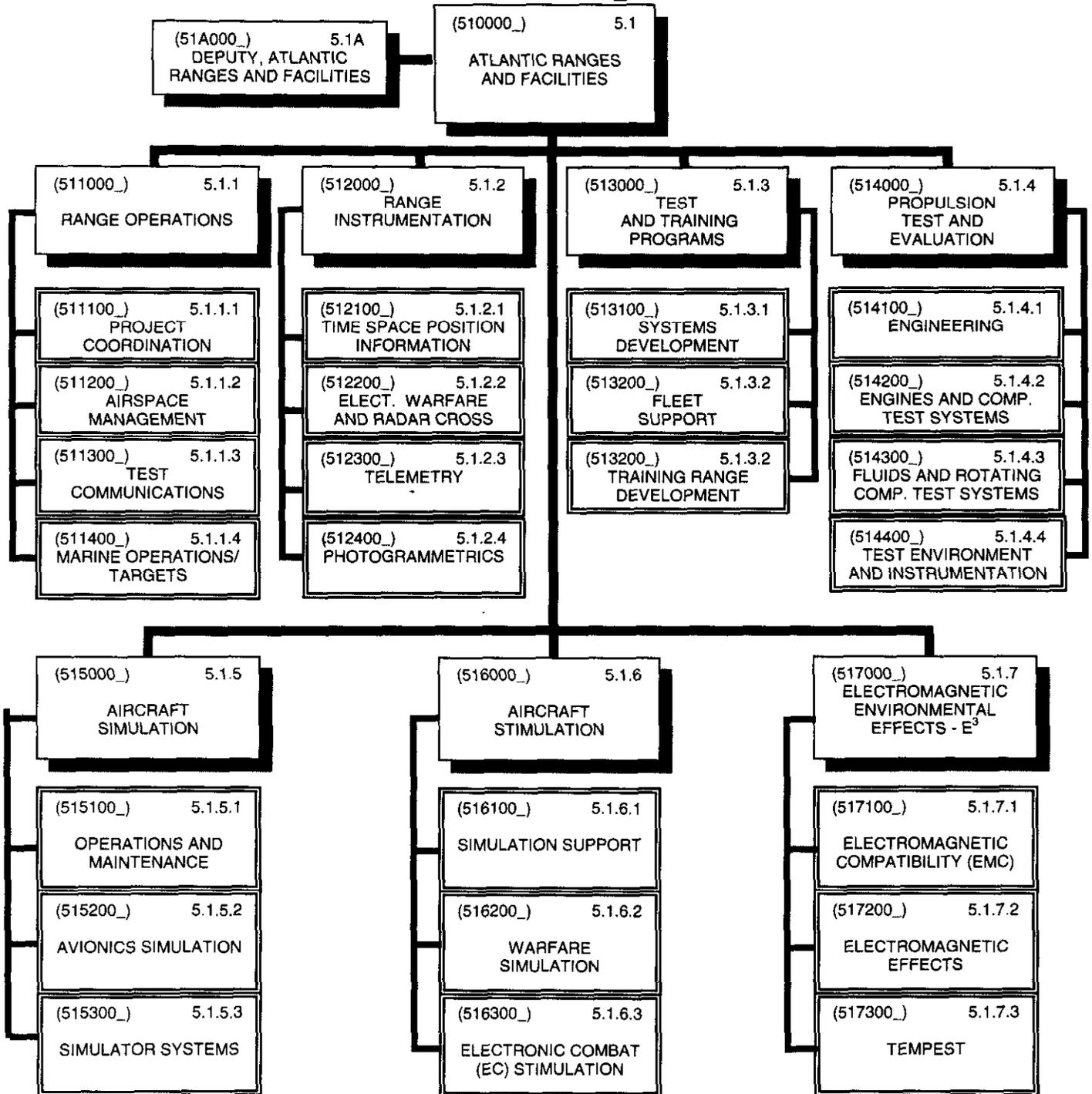
TEST AND EVALUATION STAFF (5.0C/5C0000_) - Provides the resources required to provide competency administration, Joint Service T&E support, RDT&E program management for assigned NAVAIR leadership areas, Aircraft Controlling Custodian and Aircraft Safety functions. Specific responsibilities include:

- Administration - The people, skills, knowledge, processes, facilities, and equipment required for the development and coordination of AIR-5.0 personnel management policies and procedures; human and financial resource management; budget planning and execution programs; and coordinating staff services and support for the entire competency.
- Managing the Navy MRTFB Program Elements - T&E Support (PEO605864N), T&E Investment (PEO604759N), and Navy portion of CTEIP Investment (PEO604940D). Provides requirements analysis, development of plans, policy, and guidance to optimize both capability within resources and development of assigned Navy T&E ranges and facilities.
- Providing secretariat and staff assistance to the Navy representatives on the Test and Evaluation Reliance and Investment Board (TERIB).

AIRCRAFT CONTROLLING CUSTODIAN (5.0D/5D0000_) - Provides the resources to meet Chief of Naval Operations (CNO) directed readiness and safety standards while optimizing total resource requirements in support of all assigned Research, Development, Test & Evaluation (RDT&E) or Fleet Support (FS) under the direct cognizance of the Commander, Naval Air Systems Command. This includes determination and execution of Aviation Depot Level Repairable and Flight Hour Funding, analysis and influence of military manpower, training coordination, aviation material management, and aircraft assignment and Aviation Support Equipment management. Responsibilities include management of repair of aeronautical equipment and the most economic level of maintenance and protection of weapons systems through effective preventative maintenance programs and the efficient use of data as a management tool to improve aircraft and support equipment material condition and safety.

AVIATION SAFETY (5.0F/5F0000_) - Sets aviation safety policy and operationally supports the Commander, Naval Air Systems Command, PEOs, and DIA. Represents the Commander in all safety-related issues concerning DOD, SECNAV, CNO, CMC, NAVSAFECEN, USAF, WSA, FAA, and NTSB. Provides initial and retrofit safety requirements for aircraft, avionics, air-launched weapons, cruise missiles, unmanned aerial vehicles, and all related equipment and support for naval aviation systems, as identified by the fleet and local studies and initiatives.

ATLANTIC RANGES AND FACILITIES
5.1/510000_



ATLANTIC RANGES AND FACILITIES (5.1/510000_) – Provides full spectrum Research, Development, Test, and Evaluation (RDT&E) facilities and services which create a realistic battle space environment to support all phases of systems acquisition. We provide cost effective, safe, instrumented, and controlled testing and training services in the air, land, and sea arenas to a diverse DOD customer base.

DEPUTY, ATLANTIC RANGES AND FACILITIES (5.1A/51A000_) - Responsible for all internal/external operations; provides leadership and management to Atlantic Ranges and Facilities, providing management of the development, maintenance, and operation of Atlantic Ranges and Facilities major range and ground test facilities. Deputy and Atlantic Ranges and Facilities staff include: Associate for Ground Test, Associate for Flight Test, Special Projects Office, Common Investment and Architecture Office, Science Advisor, Resource Office, Chief Test Pilot/Range Safety Officer, and the Chief Engineer.

RANGE OPERATIONS (5.1.1/511000_) – Responsible for providing infrastructure support for all activities within the Cedar Point complex and associate remote sites. These general support functions include; Airspace coordination, control, and scheduling, project liaison, coordination, and scheduling, general communications and marine operations, and target presentation support.

PROJECT COORDINATION (5.1.1.1/511100_) – Is the single point of contact for new projects within Range Operations.

AIRSPACE MANAGEMENT (5.1.1.2/511200_) – Responsible for both the advisory and/or precision control of all aircraft flying within the Patuxent River special use airspace and all aircraft participating in NAWCAD sponsored flight activities within the offshore VACAPES warning areas.

TEST COMMUNICATIONS (5.1.1.3/511300_) – Provides resources required for the development, test, operation, and maintenance of the broad spectrum of communications and data transmission systems used during the conduct of aircraft and weapons systems open-air flight test and lab simulations.

MARINE OPERATIONS/TARGETS (5.1.1.4/511400_) (Includes Key West Facility) – Provides resources required to plan and conduct testing and support operations in the marine environment.

RANGE INSTRUMENTATION (5.1.2/512000_) – Responsible for development, operation, maintenance, and sustainment of real-time and post processing range instrumentation systems used during the conduct of aircraft and weapons systems flight testing.

TIME SPACE POSITION INFORMATION (5.1.2.1/512100_) – Responsible for the resources required for the development, operation, maintenance, and sustainment of real-time and post processing TSPI range instrumentation systems used during the conduct of aircraft and weapons systems flight testing.

ELECTRONIC WARFARE AND RADAR CROSS (5.1.2.2/512200_) – Includes emitters and measurement systems.

TELEMETRY (5.1.2.3/512300_) – Responsible for the resources required for the development, operation, maintenance, and sustainment of real-time and post processing Telemetry range instrumentation systems used during the conduct of aircraft and weapons systems flight testing.

PHOTOGRAMMETRICS (5.1.2.4/512400_) – Responsible for the resources required for the development, operation, maintenance, and sustainment of post processing related to Optical and Metrology range instrumentation systems used during the conduct of aircraft and weapons systems flight testing.

TEST AND TRAINING PROGRAMS (5.1.3/513000_) – Provides systems engineering, acquisition management, and life cycle support for Navy air and sea tactical training ranges and systems.

SYSTEMS DEVELOPMENT (5.1.3.1/513100_) – Provides the people, processes, knowledge, and applied skills in design, development, operations, maintenance, and configuration management for generic training range and T&E range systems development and integration.

FLEET SUPPORT (5.1.3.2/513200_) – Provides the interface between the ATR team and the Fleet concerning all issues relating to fleet training support provided by ATR and other level 3 organizations or teams within Atlantic Ranges and Facilities.

TRAINING RANGE DEVELOPMENT (5.1.3.3/513300_) – Provides the people, processes, knowledge and applied skills in acquisition management, engineering, integration, T&E, and life cycle management for support of Navy air and sea combat tactical training ranges.

PROPULSION TEST AND EVALUATION (5.1.4/514000_) – Performs Test and Evaluation of Naval Aviation Propulsion Systems in the Laboratories, Engine Test Chambers and Component Test Rigs of the

Propulsion Systems Test Facility (PSEF), Aircraft Test and Evaluation Facility (ATEF), and the Outdoor Test Site (OTS, Lakehurst).

ENGINEERING (5.1.4.1/514100_) – Provides engineering direction of all test operations.

ENGINES AND COMPONENTS TEST SYSTEMS (5.1.4.2/514200_) – Provides the mechanics conduct the testing in the Un-Manned Air Vehicle Altitude Test Cell, the Helicopter Transmission Test Facility, the Fuel Component Test Facility, and Accessory Test Area.

FLUIDS AND ROTATING COMPONENTS TEST SYSTEMS (5.1.4.3/514300_) – Provides the mechanics that conduct the testing in the Rotor Spin Facility and the Fuels and Lubricants Test Area.

TEST ENVIRONMENT AND INSTRUMENTATION (5.1.4.4/514400_) – Provides the mechanics that conduct the corrective and preventative maintenance on the specialized test support equipment.

AIRCRAFT SIMULATION (5.1.5/51500_) - Performs and supports full spectrum RDT&E of aircraft avionics systems, aircraft aerodynamics, and flight control systems using advanced concepts in modeling and simulation and state of the art flight simulators.

OPERATIONS AND MAINTENANCE (5.1.5.1/515100_) – Sustains and expands the capabilities of the Aircraft Simulation Laboratories, including computer systems, visual systems, interface hardware, laboratory unique equipment, and associated simulation technologies.

AVIONICS SIMULATION (5.1.5.2/515200_) – Provides avionics digital systems in models for use in the ACETEF systems models for use in the ACETEF systems of systems operations.

SIMULATOR SYSTEMS (5.1.5.3/515300_) – Contains the resources and the knowledge required to manage, design, fabricate, document, and test complex simulation systems for piloted utilization both within and external to ACETEF.

AIRCRAFT STIMULATION (5.1.6/516000_) – Performs and supports full spectrum RDT&E of highly integrated/adaptive aircraft and aircraft systems in a secure and controlled engineering environment using a suite of fully integrated simulation/stimulation laboratories.

SIMULATION SUPPORT (5.1.6.1/516100_) – Provides the resources required to provide digital simulation support for inter-laboratory networking, High Performance Computing, ADP security documentation and accreditation, configuration management, external links, Digital Simulation Internet (DSI) hardware support, High Level Architecture (HLA) hardware support, instrumentation control, and data reduction and analysis.

WARFARE SIMULATION (5.1.6.2/516200_) – Provides the resources required to provide digital simulation support for distributed simulation testing, rapid display prototyping, scenario development, scenario design, Digital Simulation Internet (DSI) protocol and software support, High Level Architecture (HLA) protocol and software support, instrumentation control, data reduction and analysis, and operational effectiveness analysis.

ELECTRONIC COMBAT (EC) STIMULATION (5.1.6.3/516300_) – Provides the resources required to provide digital simulation support and digital/analog stimulation support for electronic combat systems including electronic warfare, communications, navigation, identification, and offensive systems and sensors.

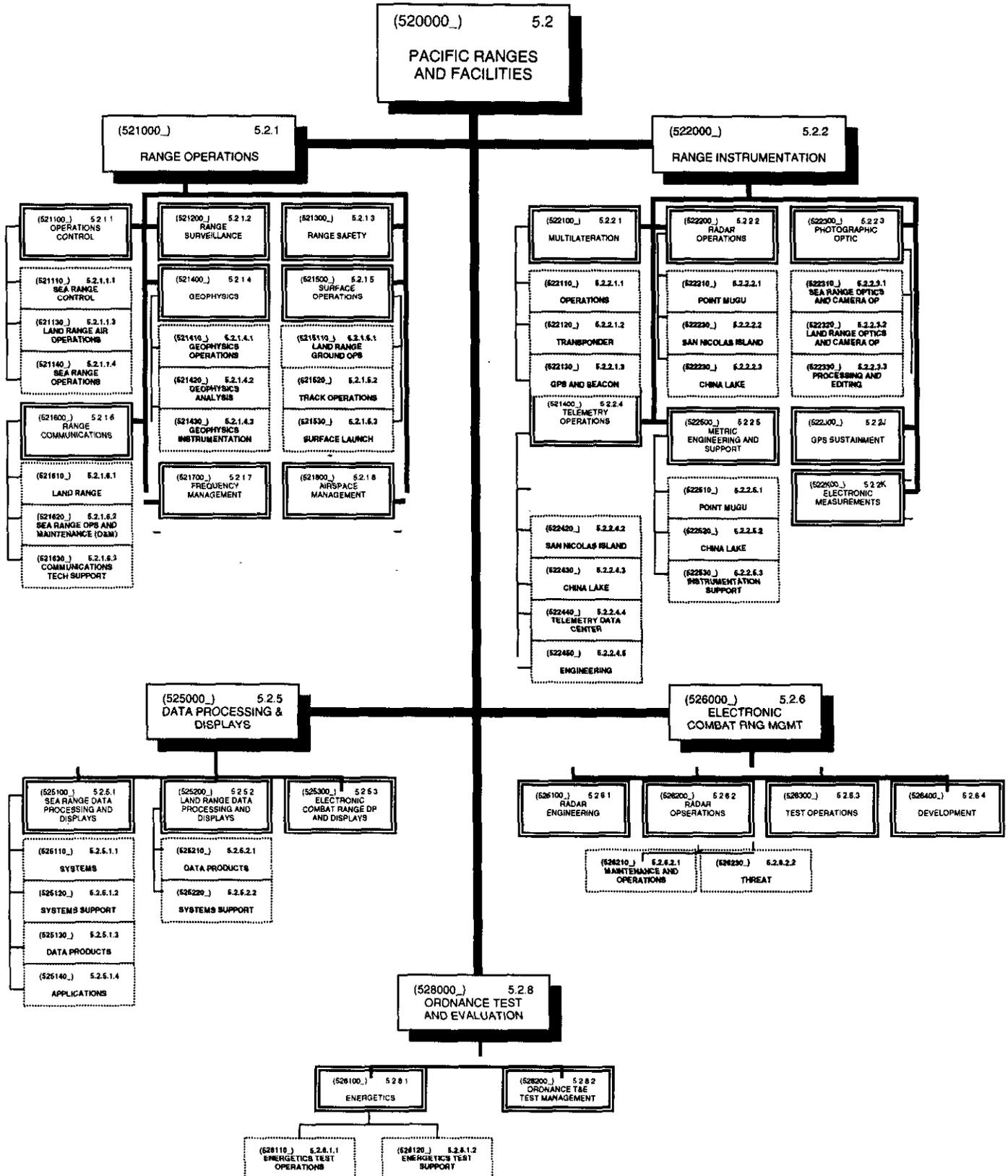
ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (E³) (5.1.7/517000_) – Provides instrumented, controlled indoor and outdoor E3 testing.

ELECTROMAGNETIC COMPATIBILITY (EMC) (5.1.7.1/517100_) – Provides the resources required to provide Electromagnetic Interference (EMI)/Electromagnetic Compatibility (EMC) test support following MIL-STD-464.

ELECTROMAGNETIC EFFECTS (5.1.7.2/517200_) – Provides the resources required to provide EME test support in the areas of Electromagnetic Effects (EME0), Electromagnetic Transients (EMT), Lightning, Electrostatic Discharge (ESD) including Precipitation Static (P-Static) and Electromagnetic Vulnerability (EMV) including High Intensity Radiated Fields (HIRF) and Hazardous EM Radiation to Ordnance/Personnel and Fuels (HERO/P/F), in accordance with MIL-STD-464.

TEMPEST (5.1.7.3/517300_) – Provides the resources required to provide TEMPEST /COMSEC and test support.

PACIFIC RANGES AND FACILITIES
5.2/520000



PACIFIC RANGES AND FACILITIES (5.2/520000_) - Provides the resources required to provide safe, instrumented, controlled testing and training in the air, land, sea, electronic combat, radar cross section, track, ordnance test, and ship weapons test arenas. This includes design, development, operations, maintenance, and configuration management of range facilities and instrumentation, and certification of range personnel.

RANGE OPERATIONS (5.2.1/521000_) - Provides the resources to schedule and conduct tests, provide surveillance of range land, sea, assure operational security, and control air and surface targets. Provides staff support for preservation and enhancement of the Pacific Ranges and Facilities airspace and land resources, including the Point Mugu and China Lake ranges and the joint-service managed California R-2508 Complex. Provides skilled and knowledgeable people and documented processes required to: set up, operate, and maintain frequency management, monitoring and control systems for the Point Mugu and China Lake sites; to establish, coordinate, and implement safety policy and criteria for all personnel and property hazards associated with missile flight operations for the Point Mugu and China Lake sites; characterize, measure, and assess the natural air-sea environment in which operations are conducted at Sea and Land Range sites. This also includes: supporting surface test operations and weapon systems, missiles, guns, aircraft components, sensors, and other ordnance items on the China Lake ranges; all aspects of testing on China Lake sled tracks and on related facilities; and, support and control for surface launches of missiles from Point Mugu and from San Nicolas Island; and, providing radio frequency and voice communications, voice and data transmissions (microwave, cable, fiber optics, etc.), Communications Security (COMSEC), Ultra High Frequency (UHF) Command/Control flight termination, Inter Range Instrumentation Group (IRIG) timing and its distribution, and frequency monitoring and control at both the Land and Sea Ranges.

OPERATIONS CONTROL (5.2.1.1/521100_) - Provides the resources to conduct range operations and monitor and control air and sea traffic on the ranges at China Lake and Point Mugu. Critical operations support positions include Test Conductors, Range Control Officers, Air Traffic Controllers, and Control Room Operators. Technical staff operates, maintains, and provides engineering support to surveillance radar systems at the Sea Range.

SEA RANGE CONTROL (5.2.1.1.1/521110_) - Provides the resources to monitor and control air and sea traffic on the Sea Range. Primarily operates the Sea Range Military Radar Unit and supports operation and maintenance of

surveillance radar systems. Surface search radar at Laguna Peak, San Nicolas Island, and Santa Cruz Island and the Air Route Surveillance radar at San Nicolas Island are the major systems under cognizance of Sea Range Control. Staffing includes range control officers, air traffic controllers, and surveillance radar technicians.

LAND RANGE AIR OPERATIONS (5.2.1.1.3/521130_) – Conducts test operations in support of weapons system test and evaluation and Fleet training at the China Lake land ranges. Also staffs the Air Surveillance Center and provides air traffic services to these same ranges. Flight Termination Officers are provided for weapons systems equipped with flight termination systems. Other duties include oversight responsibility for contractor supported mobile and static land targets and range cleanup. Test conductors, air traffic controllers, and control room operators reside within Land Range Air Operations.

SEA RANGE OPERATIONS (5.2.1.1.4/521140_) – Plans, coordinates, and conducts test operations in support of weapons system and target development test and evaluation and Fleet training at the Sea Range. Also provides consultative support and Test Conductor services, as requested, for test operations worldwide. Test conductors and control room operators reside within Sea Range Operations.

RANGE SURVEILLANCE (5.2.1.2/521200_) – Provides the resources to manage and operate the Sea Range Surveillance Center. Provides Sea Range area surveillance, air control, and Tactical Data Systems (TDS) support. Pursues courses of action to mitigate impact for non-participating aircraft and/or surface vessels or private commercial surface vessels transiting Range areas. Plans aircrew mission brief and equipment requirements to satisfy test operations mission support.

RANGE SAFETY (5.2.1.3/521300_) – Provides the resources to establish, coordinate, and implement safety policy and criteria for all personnel and property hazards associated with missile flight operations. Critical operations support positions include range safety officers, missile flight safety officers, missile aerospace engineers, and flight termination systems engineers. Primary operations safety systems include computer workstations, command control, missile tracking, and communications systems.

GEOPHYSICS (5.2.1.4/521400_) - Provides the resources and full spectrum support to characterize, measure, and assess the natural air-sea environment in which operations are conducted at Sea and Land Range sites. This includes all weather and ocean observations, forecasts, warnings, and evaluation support, including pre-op planning guidance to project personnel, real-time Go/No-Go weather assessments in T&C rooms or briefs, and post-op analyses of geophysical impacts on range users, project sponsors, subordinate commands, and tenants. Provides all weather support required to keep the airfields in an open status at Point Mugu, San Nicolas Island, and China Lake jointly with the co-located and integrated Naval Pacific METOC Detachment at Point Mugu. Conducts meteorological, oceanographic, and engineering assessments of weather effects on weapons and related systems performance, develops new techniques and capabilities, and coordinates with Fleet activities on the demonstration and validation of operational decision aids. Conducts upper air rawinsonde, rocketsonde, airborne (helo) measurements, airfield surface weather observations, and special field measurements on land and sea for Range or sponsor support, including off-range support of projects at remote sites.

GEOPHYSICS OPERATIONS (5.2.1.4.1/521410_) - With the integrated and co-located Fleet METOC Detachment (NPMOD), provides all airfield and flight observations, forecasts, and warnings, including sea conditions for Point Mugu, San Nicolas Island, the Sea Range, China Lake, and the Land Range, including areas enroute, downrange, and for cross-country flights to ensure safety of flight. Provides pre-op, real-time, and post-operation briefings, guidance, and support products. Obtains, tests, and processes upper air sounding data from rawinsondes, rocketsondes; and for very low altitudes over the sea, helicopter measurements along planned missile flight trajectories for use in determining ducting, moisture, temperature, and other properties affecting sensor performance in various op areas.

GEOPHYSICS ANALYSIS (5.2.1.4.2/521420_) - Provides analysis, technical guidance and documentation, climatological summaries, algorithms, displays, real-time assessment tools, and post-operation evaluations to describe air-sea conditions and their role in explaining their impact on operations and sensor performance. Develops operational decision aids for exploiting air-sea data for Range operations; and with sponsor funds, and in concert with Fleet activities, extends the techniques to solve high

priority fleet problems such as improved duct forecasting for low altitude threat detection and cruise missile (TLAM/JSOW/SLAM) pre-launch and real-time environmental displays for time-on-target, Go/No Go, and various strike planning functions. Provides technical leadership and modeling on air pollution transport issues to protect Sea Range, and in concert with CNO, other Navy interests. Supports command's interoperability, networking, and Network Centric Warfare (NCW) initiatives by operating TESS, NITES, and other environmental systems in the BMIC and interfacing them with TAMPS and other mission planning systems used to support Range operations.

GEOPHYSICS INSTRUMENTATION (5.2.1.4.3/521430_) - Installs, maintains, develops, modifies, tests, and evaluates meteorological and oceanographic instrumentation to support aviation flight safety equipment at Point Mugu, San Nicolas Island, and China Lake, as well as related instrumentation and computer-based systems or displays at remote sites, on ships, on aircraft, and in tracking and control rooms to accurately measure the environment in which test operations are conducted from the sea to the upper atmosphere. Maintains and interfaces state-of-the-art fleet systems such as TESS and GCCS in BMIC for use in supporting fleet exercises and other complex Range operations. Provides logistic and procurement support, custody records, and resource management.

SURFACE OPERATIONS (5.2.1.5/521500_) – Provides the resources to plan and conduct: surface test operations and weapon systems, missiles, guns, aircraft components, sensors, and other ordnance items on the China Lake ranges; all aspects of testing on China Lake sled tracks and on related facilities; and, support and control for surface launches of missiles from Point Mugu and from San Nicolas Island.

LAND RANGE GROUND OPERATIONS (5.2.1.5.1/521510_) – Plans and conducts surface test operations of weapon systems, missiles, guns, aircraft components, sensors, and other ordnance items on the China Lake ranges. This includes, but is not limited to small to large caliber gun/projectile test firings, surface-to-surface and surface-to-air missile firings, ship defense weapons system testing, small and large scale air missile firings, ship defense weapons system testing, small and large scale detonation tests, ordnance fire studies, launch and recovery of target

drones, recovery of ordnance items impacting on the North Ranges, and ordnance preparation, conditioning, and painting. On-site facilities are available to build up test equipment, store and process ordnance items, fabricate or modify test hardware, and conduct tests. Electricians and ordnance-qualified personnel are responsible for all aspects of test setup and execution.

TRACK OPERATIONS (5.2.1.5.2/521520_) – Plans and conducts all aspects of testing on China Lake sled tracks and on related facilities. Coordinates and/or provides all capabilities necessary for design, setup, and execution of track tests, as well as for collection and presentation of data. Test data typically include both electronic and photographic products. On-site facilities are available to build up test equipment, store and process ordnance items, fabricate or modify sled hardware, collect and process telemetry information, and conduct tests. Mechanical engineers design sleds and guide them through fabrication in the machine shop; they also establish the ballistics for tests and select appropriate propulsion motors. Electronics engineers and technicians prepare, fabricate, and install the various electronic components. Operations personnel expedite ordnance aspects of testing and are generally responsible for conducting all ordnance related tasks; they operate heavy equipment to setup test arenas and to handle associated hardware.

SURFACE LAUNCH (5.2.1.5.3/521530_) – Provides support and control for surface launches of missiles from Point Mugu main site and from San Nicolas Island. Employees work closely with customers and Test Managers to establish requirements and conduct tests. The electronics engineers, electronics technicians, and engineering technicians are additionally responsible for development and installation of process equipment and for qualification/certification of launch control officers and launch pad supervisors. Employees participate in and assist with hands-on ordnance operations as appropriate.

RANGE COMMUNICATIONS (5.2.1.6/521600_) – Provides the resources required to provide radio frequency and voice communications; voice and data transmissions (microwave, cable, fiber optics, etc.); Communications Security (COMSEC); Ultra High Frequency (UHF) Command/Control flight termination; Inter Range Instrumentation Group (IRIG) timing and its distribution; and

frequency monitoring and control at both the Land and Sea Ranges. This includes setup, operation, maintenance, upgrade, and configuration management of the above communications equipment. Also provides maintenance and engineering services essential to ensure the operational readiness of the Range Communications and Range Instrumentation systems through depot level and corrective maintenance, Improvement and Modernization programs, and overhaul of a broad spectrum of Range Antenna systems.

LAND RANGE (5.2.1.6.1/521610_) – Provides the above mentioned personnel and services at the Land Range, China Lake.

SEA RANGE OPERATIONS AND MAINTENANCE (O&M) (5.2.1.6.2/521620_) – Provides the Operations and Maintenance portion of the above mentioned personnel and services for the Sea Range, Point Mugu.

COMMUNICATIONS TECHNICAL SUPPORT (5.2.1.6.3/521630_) – Provides the personnel and services outside the Operations and Maintenance functions to sustain the communication infrastructure mentioned above.

FREQUENCY MANAGEMENT (5.2.1.7/521700_) - Provides three primary functions related to management of the Radio Frequency (RF) Spectrum. These are local management of the frequencies used at the bases (NAWS, China Lake and NAS Point Mugu) and Area Frequency Coordination for two jurisdictions, as defined below.

Acts for the commander as DOD Western Area Frequency Coordinator (WAFC). As the WAFC:

- Provides a radio frequency coordination system, minimizes electromagnetic interference, promotes the DOD electromagnetic compatibility program, and encourages maximum use of the radio frequency spectrum for DOD national and service test and training ranges and test sites within his or her area and with adjacent DOD and non-military installations. Area of responsibility includes the area within a 200-mile radius of the NAWCWPNS Headquarters Building at Point Mugu and the area of California that lies south of latitude 37 degrees, 30 minutes north.
- Provides government field-level frequency coordination in support of the National Telecommunications and Information Administration, U.S. Department of Commerce.

- Acts as the control point for all active Electronic Countermeasures (ECM) within 200 miles of Point Mugu.
- Acts as the chairperson of the joint DOD/NASA Mojave Coordinating Group, ensuring compatible operations between DOD and NASA operations in the Mojave Desert area.

Acts for the Commander as the Navy Frequency Coordinator Western U.S. (NFCWUS). As the NFCWUS:

- Provides frequency coordination for all Navy and Marine Corps ashore activities' frequency assignment matters in the fourteen western states and Alaska, except those of the Naval Communications Area Master Station, Eastern Pacific. Authenticates and validates all Navy and Marine Corps frequency requests in his or her area, performs necessary coordination, and forwards recommendations to the Naval Electromagnetic Spectrum Center. Provides technical guidance and expertise to field level frequency managers in his or her area of responsibility. Coordinates with 3rd Fleet to ensure compatibility between fleet and ashore operations.
- Serves as the Western Regional Manager for the Automated Spectrum Planning, Engineering, Coordination, and Tracking System (ASPECTS), providing support to Navy and Marine Corps users of ASPECTS in the Western U.S. and Eastern and Western Pacific.

Provides Station Frequency Management Officers (SFMO) for NAS Pt. Mugu and NAWC China Lake. This function primarily supports the Sea Range at Point Mugu, and the Echo and Land Ranges at China Lake. Provides reviews and comments on all requests for frequency assignments in the areas of responsibility, and maintains current records of such frequency assignments. Provides Inter-Agency Deconfliction Coordination for the Commands within the areas of responsibility, as defined above.

AIRSPACE MANAGEMENT (5.2.1.8/521800_) – Provides staff support for preservation and enhancement of the Pacific Ranges and Facilities airspace and land resources, including the Point Mugu and China Lake ranges and the joint-service managed California R-2508 Complex. Manages airspace resources, provides consultative support to range encroachment and Public Relations issues, and provides procedure and policy expertise for air traffic control and airspace surveillance system planning and management for NAWCWD. Serves as a technical consultant and represents the Pacific Ranges and Facilities at Command-level offices and committees and to off-center groups such as the Federal Aviation Administration, R-2508 Joint Policy and Planning

Board and Complex Control Board, Range Commanders Council, Major Range Test Facility Base, Bureau of Land Management, Forest and National Park Service, other military services, and local/state government organizations. Provides Airspace Management support to the Central Coordination Facility at Edwards Air Force Base. This support includes airspace scheduling, aircrew briefings, airspace policy and procedure consultation, and administrative support as required by the Complex Control Board for the R-2508 Complex.

RANGE INSTRUMENTATION (5.2.2/522000_) - Provides the resources to operate, maintain, evaluate performance, analyze requirements, design, develop, build, and integrate range instrumentation systems including Metric Radar, Multilateration, and Telemetry systems. Manages Cognizant Field Activity and R-Cube unit inventory, distribution, maintenance, calibration, and testing. Installs, tests, operates, and maintains transponders and Participant Instrument Packages. Installs, tests, and operates photographic and video instrumentation for airborne, land, and at-sea test operations. Develops, builds, operates, and maintains Anti-Radiation Missile (ARM) Targets. Manages the Tri-Service Global Positioning System (GPS) Sustainment Management Office.

MULTILATERATION (5.2.2.1/522100_) - Responsible for providing land and space based multilateration system operation and maintenance, installation, program planning, management, design, development, integration, procurement, modification, and systems engineering, plus operation, maintenance, and installation of transponder systems.

OPERATIONS (5.2.2.1.1/522110_) - Provides instrumentation support to range users, including operation and maintenance of the Multilateration Operations Control System (MOCS), GPS, and mobile multilateration systems. Evaluates system performance and provides development, direction, and implementation of improvements and modifications to existing systems. Also provides contract monitoring and contracting officer's technical representative services for multilateration systems, both currently operational and new systems under development. Is the Cognizant Field Activity (CFA) for the Navy for R-cubed transponders. Geodetic survey support is also provided along with operation and maintenance of GPS range performance evaluation systems, operation of the GPS laboratory, and base reference receiver station.

TRANSPONDER (5.2.2.1.2/522120_) - Provides Metric Radar Transponder, MOCS, and GPS participant instrumentation package services to range users including installation of transponders in manned and unmanned air and surface vehicles at Point Mugu, and remote sites; operation of a laboratory for maintenance, tuning, calibration; operation of mobile maintenance and installation units; plus maintenance of ground reference stations. Also provides depot level maintenance for the Navy's R-cubed transponders.

GPS AND BEACON (5.2.2.1.3/522130_) - Operates, maintains, repairs, and upgrades instrumentation radar and beacon systems in support of Land Range testing.

RADAR OPERATIONS (5.2.2.2/522200_) - Operates, maintains, repairs, upgrades, and provides all related services for instrumentation radar systems in support of Sea and Land Range testing.

POINT MUGU (5.2.2.2.1/522210_) - Operates, maintains, repairs, upgrades, and provides all related services for instrumentation radar systems at Point Mugu in support of Sea Range testing.

SAN NICOLAS ISLAND (5.2.2.2.2/522220_) - Operates, maintains, repairs, upgrades, and provides all related services for instrumentation radar systems at San Nicolas Island (SNI) in support of Sea Range testing.

CHINA LAKE (5.2.2.2.3/522230_) - Operates, maintains, repairs, and upgrades instrumentation radar and beacon systems in support of Land Range testing. Ensures ARM Target coordination of functions and processes to ensure ARM Targets are available to support Test Management Offices and other entities needing the assets maintained within the competency.

PHOTOGRAPHIC OPTIC (5.2.2.3/522300_) - Electro-optical instrumentation is provided in support of air and land range testing. Imagery and engineering sequential data from mobile and fixed tracking platforms, as well as geodetic survey support is provided. Commercial and customized sensors, support equipment, and techniques are used to ensure that instrumentation products meet customer needs. Laser test support is also provided to customers, as well as liaison to help establish program-testing objectives, to

coordinate assets with other range activities, and to provide instrumentation support during field trials. System engineering is provided to develop, implement, and evaluate performance of range electro-optical systems.

SEA RANGE OPTICS AND CAMERA OPERATION

(5.2.2.3.1/522310_) - Provides operational tracking and instrumentation photography support, improvements to optical instrumentation systems, modifications of these systems to improve maintain-ability, operability, reliability, or accuracy to meet unique operational requirements, and evaluates the effectiveness of such modifications.

LAND RANGE OPTICS AND CAMERA OPERATION

(5.2.2.3.2/522320_) - Provides operational tracking and instrumentation photography support, improvements to optical instrumentation systems, modifications of these systems to improve maintain-ability, operability, reliability, or accuracy to meet unique operational requirements, and evaluates the effectiveness of such modifications.

PROCESSING AND EDITING (5.2.2.3.3/522330_) -

Provides general administrative and technical documentation photography services, a full-service photographic laboratory production capability, and full-spectrum video production and editing services. Also reviews and approves photo pass requests and audiovisual equipment procurements.

TELEMETRY OPERATIONS (5.2.2.4/522400_) -

Provides the people, skills, knowledge, engineering expertise, and specialized equipment required providing telemetry support to all range customers. Includes airborne and ground-based reception, recording, decommutation, processing, and display of telemetry data. Provides design, development, operation, maintenance, and configuration management of telemetry facilities, equipment, and software.

POINT MUGU (5.2.2.4.1/522410_) -

Responsible for providing air and ground based telemetry data collection support to all customers. Also provides management, operation, and maintenance of the airborne and mainland telemetry collection facilities and equipment. This includes airborne antennas, receivers, recorders, retransmitters,

decommutators, display equipment, and ground-based antennas, receivers, recorders, best source selectors, and data distribution equipment.

SAN NICOLAS ISLAND (5.2.2.4.2/522420_) - Responsible for providing telemetry data collection support to all Sea Range customers. Also provides management, operation, and maintenance of the SNI telemetry facilities and equipment. This includes ground-based antennas, receivers, recorders, and data distribution equipment.

CHINA LAKE (5.2.2.4.3/522430_) - Responsible for providing the telemetry support to all Land and Echo Range customers. Provides design, development, operation, maintenance, and configuration management of telemetry facilities, equipment, and telemetry software at the China Lake site. This includes the ground-based antennas, receivers, recorders, discriminators, decommutators, telemetry preprocessors, engineering unit converters, data distribution, and telemetry display equipment.

TELEMETRY DATA CENTER (5.2.2.4.4/522440_) - Responsible for providing telemetry processing and display capabilities to all Sea Range customers. Also provides management, operation, and maintenance of the Telemetry Data Center facilities and equipment. This includes the discriminators, decommutators, telemetry preprocessors, formatters, engineering unit converters, data distribution, and telemetry display and recording equipment.

ENGINEERING (5.2.2.4.5/522450_) - Responsible for the design and development of telemetry systems used for Range customer support. This includes design, procurement, development, and system configuration management of telemetry facilities and equipment. Also responsible for providing design and development of airborne telemetry equipment as new requirements are presented. Responsibilities include the airborne antennas, receivers, recorders, re-transmitters, decommutators and display equipment.

METRIC ENGINEERING AND SUPPORT (5.2.2.5/522500_) - Provides engineering support including program planning, design, development, integration, procurement, modification, fabrication, and deployment of current and advanced range metric instrumentation.

POINT MUGU (5.2.2.5.1/522510_) - Responsible for design, development, and procurement of radar systems, infrastructure engineering, system/subsystem configuration management, integrated logistic support program development, design, maintenance, modification, installation, qualitative, quantitative, and consultative engineering services applied through emergency, intermediate, and overhaul programs. Also responsible for designing, developing, implementing, testing, evaluating, procuring, and monitoring contracts in support of airborne and marine systems.

CHINA LAKE (5.2.2.5.2/522520_) - Responsible for design and development of optical systems used on the Land and Sea Ranges. This includes design, procurement, development, and system configuration management of optical facilities, systems, and equipment for Land and Sea range customers.

INSTRUMENTATION SUPPORT (5.2.2.5.3/522530_) - Responsible for developing, managing, and implementing systems engineering for electronic and electrical systems used in range instrumentation. Responsibilities include providing documented guidelines for maintenance of equipment and systems; repairing and maintaining electronic, electrical, and recording equipment and systems; developing and monitoring technical contract and procurement specifications required for system improvement programs; and supporting configuration management of designated range instrumentation systems.

GPS SUSTAINMENT (5.2.2J/522J00_) - The is a Tri-Service GPS Sustainment Management Office (SMO) supporting 11 Navy, Army, and Air Force T&E and Training Ranges. Supports foreign customers and is currently administering two Foreign Military Sales (FMS) Cases with Germany. Provides for maintenance, repair, upgrades, and technology insertion of GPS systems in use at all the DOD ranges. Reports to the Range Instrumentation Systems Program Office (RISPO) at Eglin Air Force Base for the GPS based Advanced Range Data System (ARDS). Awards and administers multiple support contracts and administers a web site utilized for all aspects of contract monitoring, administration, and repair tracking.

ELECTRONIC MEASUREMENTS (5.2.2K/522K00_) - Provides four distinct areas of testing including Radar Cross Section (RCS) measurements, High Power Transient Electromagnetic Testing

(HPTET), GPS Jamming, and Antenna Pattern Measurements (APM). Provides the resources to set up, operate, and maintain the facilities and equipment at Junction Ranch and to assist in test planning. Ensures collected data is calibrated and valid. Ensures that qualified personnel are available for Target handling and preparation. A cornerstone to the continuous improvement of the Junction Ranch Facility is the effort to conceive innovative advances in RCS measurement technology; HPTET technology and GPS jamming test techniques.

DATA PROCESSING AND DISPLAYS (5.2.5/525000_) - Provides the resources necessary to provide digital data recording, telemetry, surveillance, simulation, and other data sources. Functions include capability management, data requirements coordination, data product set-up, test/training operation support, data accuracy and quality assessment, and data product generation. Capability management includes performance assessment, system engineering and improvement, acquisition, integration, operation, and maintenance of facilities, systems, and software. Provides overall management and coordination of these functions across customer Ranges in order to achieve competency effectiveness, efficiency, and uniformity.

SEA RANGE DATA PROCESSING AND DISPLAYS (5.2.5.1/525100_) - Responsible for the breadth of data products and services supporting the Sea Range and its customers, and for the management of that capability, including performance assessment, system engineering and improvement, acquisition, integration, and operation and maintenance of the facilities, systems, and software necessary to provide those products and services.

SYSTEMS (5.2.5.1.1/525110_) - Responsible for the assessment, planning, project management, design, acquisition, development, installation, integration, and documentation of data processing systems, networks, and facilities. Assessment of systems, networks, and facilities includes capability effectiveness in meeting customer requirements as well as resource availability and reliability, and operations and maintenance costs.

SYSTEMS SUPPORT (5.2.5.1.2/525120_) - Responsible for the operation, maintenance, acceptance testing, problem reporting, configuration management, and administration of data processing systems, networks, and facilities. Administration includes ADP accreditation, security, and property accounting functions.

DATA PRODUCTS (5.2.5.1.3/525130_) - Responsible for coordination and definition of customer data product requirements (including interface with Sea Range, Test Conductor, and Range Safety personnel), data product set-up, test/training operation support, and data product production, quality assurance, handling, and delivery to customers. As the interface to data product customers, Data Products is also responsible for overall system validation testing.

APPLICATIONS (5.2.5.1.4/525140_) – Responsible for the processes used to produce customer data products and for the acquisition, development, and maintenance of software used in product generation, instrumentation accuracy/calibration support, and data quality analysis.

LAND RANGE DATA PROCESSING AND DISPLAYS (5.2.5.2/525200_) - Responsible for the breadth of data products and services supporting Land Range, Ordnance Operations, and their customers, and for the management of that capability, including performance assessment, systems engineering and improvement, acquisition, integration, and operation and maintenance of the facilities, systems, and software necessary to provide those products and services.

DATA PRODUCTS (5.2.5.2.1/525210_) – Responsible for assessment of systems, networks, and facilities includes capability effectiveness in meeting customers' requirements as well as resource availability and reliability, and operation and maintenance costs. Responsible for the processes used to produce customer data products and for the maintenance of the software used by Data Products. Also responsible for coordination and definition of customer data product requirements (including interface with Land Range, Test Conductor, and Range Safety personnel), data product set-up, test/training operation support, and data product production, quality assurance, handling, and delivery to customers. As the interface to data product customers, is also responsible for overall system validation testing. Administration includes ADP accreditation, security, and property accounting functions.

SYSTEMS SUPPORT (5.2.5.2.2/525220_) - Responsible for the assessment, planning, project management, design, acquisition, development, installation, integration, and documentation of data processing systems, networks and

facilities; and for the project management, acquisition, development, integration, documentation, assessment and maintenance of software used in product generation, instrumentation accuracy/calibration support, and data quality analysis. Responsible for the operation, maintenance, acceptance testing, problem reporting, configuration management and administration of data processing systems, networks and facilities. Administration includes ADP accreditation, security, and property accounting functions. Also provides support for real-time and video data processing systems.

ELECTRONIC COMBAT RANGE DATA PROCESSING AND DISPLAYS (5.2.5.3/525300_) - Responsible for the breadth of data products and services supporting Electronic Combat Range and its customers, and for the management of that capability, including performance assessment, project management, system engineering and improvement, acquisition, integration, documentation, acceptance testing, systems validation, configuration management, administration, and operation and maintenance of the facilities, systems, and software necessary to provide those products and services. This includes the development, integration, and maintenance of weapon fly out models. Responsible for coordination and definition of customer data product requirements (including interface with Electronic Combat Range, Test Conductor, and Range Safety personnel), data product set-up, test/training operation support, data product production/quality/handling/delivery to customers, and the processes used to produce customer data products. Assessment of systems, networks, and facilities includes capability effectiveness in meeting customer requirements as well as resource availability and reliability, and operations and maintenance costs. Administration includes ADP accreditation, security, and property accounting functions.

ELECTRONIC COMBAT RANGE MANAGEMENT (5.2.6/526000_) - Develops, operates, maintains, and continuously improves a free space laboratory providing engineering support, testing (DT&E and OT&E), analysis, and training resources to the developers, integrators, testers and users of systems, and technologies that counter or penetrate surface to air defense systems.

RADAR ENGINEERING (5.2.6.1/526100_) - The primary mission is to provide the resources to monitor, configure, and regularly evaluate threat ensuring they are consistent with; intelligence assessments, range architecture requirements, and customer

needs. Also proposes and executes projects focused at improving reliability, maintainability, and threat likeness. Members participate in the planning and development of new simulators and targets providing analysis and requirements input regarding maintenance, operation, and life cycle concerns. Operates and maintains the Slate Range Facility, and other threat diagnostic systems. Participates in the exploitation of foreign materiel. Provides analytical support and upgrades to systems and process throughout the throughout Electronic Combat.

RADAR OPERATIONS (5.2.6.2/526200_) - Primary mission is the operation and maintenance of threat systems (actual and simulated) and Reference Radars. Provides the resources to set up, operate, maintain, calibrate, and repair threat systems. Maintains an inventory of parts and materiel necessary to ensure timely maintenance and repair.

MAINTENANCE AND OPERATIONS (5.2.6.2.1/526210_) - Directs and coordinates the functions and processes required to ensure threats, reference, and radars are available to support Test Management Offices and other entities needing the assets maintained within the competency. Ensures the accurate operation of their assigned systems with respect to assessed doctrine and/or customer specific requirements. Ensures adequate spare parts and materiel are in stock or otherwise readily available to support assigned Threat. Defines maintenance, calibration, alignment, and operating procedures for all Threat systems. Directs and oversees repairs and coordinate the services and support of others within and outside the competency. Reviews test plans and requirements to correlate threat capabilities with customer requirements.

THREAT (5.2.6.2.2/526220_) - Directs and coordinates the functions and processes required to ensure threats, references, and radars are available to support Test Management Offices and other entities needing the assets maintained within the competency. Ensures the accurate operation of their assigned systems with respect to assessed doctrine and/or customer specific requirements. Ensures adequate spare parts and materiel are in stock or otherwise readily available to support assigned Threat. Defines maintenance, calibration, alignment, and operating procedures for all Threat systems. Directs and oversees repairs and coordinate the services and support of others

within and outside the competency. Reviews test plans and requirements to correlate threat capabilities with customer requirements.

TEST OPERATIONS (5.2.6.3/526300_) - Manages all Electronic Combat Range test programs. Provides test planning, budgeting, coordination, scheduling, and controls tests for all programs at the Electronic Combat Range (ECR). Participates in marketing ECR to the various services including NATO organizations. Complied of the following: Air Controllers/Test Conductors (Flight Test Specialist): Responsible for controlling tests for all programs at the Electronic Combat Range, provide air traffic coordination with the R2508 complex and coordination with Test Managers and Radar sites prior to and during all tests. Configuration Management: Oversees the management of Range configuration and data management programs, ECR support contracts, software configuration management and control, and data product quality assurance for Range customers. Test Managers: Are the single point of contact for coordination of planning, budgeting, safety, environmental, and OPSEC required to approve and schedule test. They are ECR customer interface. Test Scheduling: Has the overall responsibility of management for R-2524. Provides scheduling of all fights within the R-2524 complex. Safety monitoring of range ground vehicles while operating on the range. Air Space coordination with China Lakes ASC, the Land Range, Edward's AFB, Ft Irwin, and other range schedulers. Range database management and publishing utilization reports are also accomplished by scheduling. Facility Management and Coordination: Manage, improve, and coordinate ECR facilities, utilities, and infrastructure, as well as having the responsibility of Range safety.

DEVELOPMENT (5.2.6.4/526400_) - Responsible for the maintenance, update, and implementation of the Navy Tactical Air EW T&E Resource Investment Strategy, the overall conduct of the Test Facilities Implementation Team, and the technical engineering and fiscal management of the Navy EW T&E Threat Simulator Program (Project E0602). Also manages and oversees the technical and financial execution of other resource programs such as CTEIP, REP, and CROSSBOW as they apply to the Navy EW T&E Resource Investment Strategy. This includes responsibility for the development, acquisition, and integration of threat simulators and instrumentation in accordance with Navy, Center, and Department priorities. Coordinates the management of all I&M programs that affect the Electronic Combat Range.

ORDNANCE TEST AND EVALUATION (5.2.8/528000_) - The primary mission is to provide the capability for conducting propulsion, warhead, environmental, safety, plume measurement, and gun/projectile ordnance test operations in support of the ordnance RDT&E community. Responsible for providing and maintaining resources required to accomplish chartered ordnance test and evaluation functions.

ENERGETICS (5.2.8.1/528100_) - The primary mission is to provide all the necessary support personnel needed to conduct PWE testing and minor maintenance function of facilities and specialized equipment. Provides the necessary skilled personnel to meet the test requirements defined by the Test Managers. Provides general support of the propulsion, warhead, and environmental test functions resident within the division. Provides test workload permitting, design, installation, and maintenance of data acquisition, process control, and video systems specifically tailored for ordnance test operations. Also provides specialized calibration support of propulsion instrumentation.

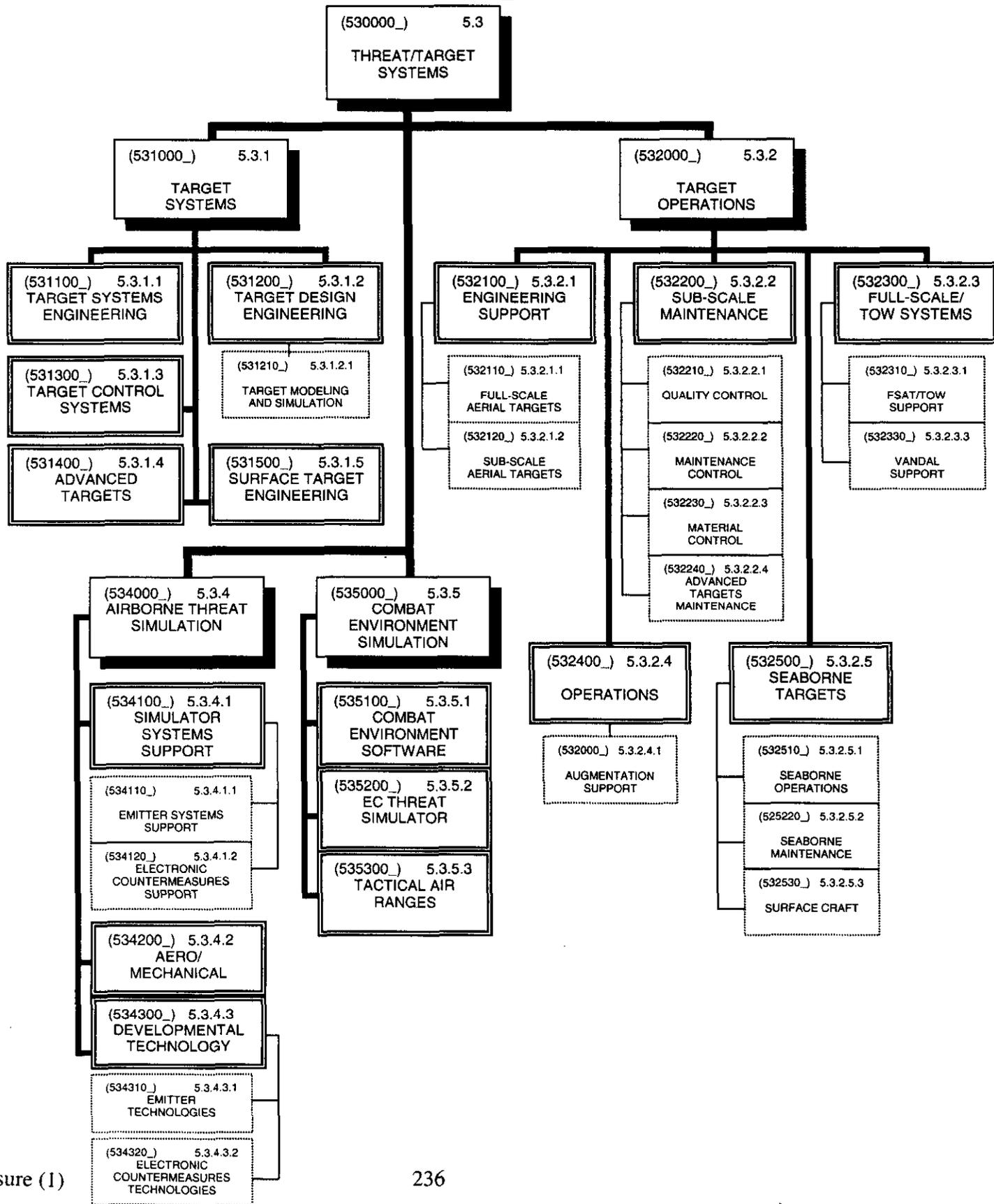
ENERGETICS TEST OPERATIONS (5.2.8.1.1/528110_) - Includes only Facility Coordinators. Responsible for conducting all test programs and coordinating the efforts of the personnel assigned to various test programs. The Facility Coordinators report directly to the Energetics' Head who provides their direct supervision. The test capabilities provided are as follows: Provides the capability for static firing of rocket propulsion systems. The facility can static fire rocket motors from tactical to strategic sized systems allowing for thrusts up to 1,500,000 lbs. The facility also conducts aeroheat testing of tactical missile structures and components, and both connected pipe and free jet testing of ramjets. Support is provided to all services and all phases of the acquisition cycles of a weapons systems development. Conducts Safety and Insensitive Munitions testing of ordnance to MIL-STD-2105A/B. Conducts warhead and energetic material tests in support of tri-service R&D efforts, JMEM effectiveness testing, insensitive munitions testing, and warhead arena tests. Support is provided to all services and all phases of the acquisition cycles of a weapons systems development. Conducts environmental qualification of weapons systems and components to MIL-STD-810E. Also supports environmental testing of prototype weapons systems and their components. Tests can be conducted on live or inert ordnance and from the component level to All Up Rounds (AUR). Support is provided to all services and all phases of the acquisition cycles of a weapons systems

development. Provides for the nondestructive testing of ordnance items ranging from components to strategic size rocket motors. Main inspection and evaluation techniques employed and computer tomography and film x-ray. Boroscopic inspection, leak testing and other nondestructive techniques are also available. Support is provided to all services and all phases of the acquisition cycles of a weapons systems development.

ENERGETICS TEST SUPPORT (5.2.8.1.2/528120_) - Provides the support personnel to conduct all test programs and facility support. Personnel are assigned in teams for individual test programs and trained in all areas to be multi-functional in their abilities to support programs.

ORDNANCE T&E TEST MANAGEMENT (5.2.8.2/528200_) - The primary mission is to provide a single point of contact for all customers requiring ordnance testing. Provides all ordnance test planning and reporting, fiscal management of customer funding, and supports test capability development and configuration management efforts to insure that Ordnance T&E organizations capabilities can meet current and future customer requirements. Provides test customer technical interface, marketing, generation of test plans, writing of test reports, and oversight of test performance for all tests involving ordnance. Performs as test conductor (if required) during testing as part of test oversight functions. Assesses test needs for hardware, facilities, and special equipment and performs as principal person for assuring all support is available and applied during testing. Test managers will coordinate these requirements with the Energetics Head, level 5 organization heads, and Facility Coordinators, as required to perform test tasks and operations. Provides any necessary quality assurance functions as defined in the Quality Assurance Surveillance Plan.

THREAT/TARGET SYSTEMS
5.3/530000



THREAT/TARGET SYSTEMS (5.3/53000_) - Provides the resources required to provide threat representative targets, simulations, and presentations for test and training in laboratories, at sea, on land, and in the air. Threat representative systems include: sub-scale targets, full scale targets, land vehicles, sea vehicles, target control systems, target augmentation systems (including counter measures), laboratory countermeasure generators, ground based counter measures systems, and anti-radiation missile targets. Provides life cycle support for the development, acquisition, systems integration, integrated logistics support, in-service engineering, operation, and maintenance of target and threat simulation systems.

TARGET SYSTEMS (5.3.1/531000_) - Provides the resources to execute target system technology development, systems acquisition, systems integration, and in-service engineering functions necessary for target system use for the test and evaluation of Navy acquisition programs, fleet operations, and training. Targets engineering includes tasks associated with the preparation of test inventory targets for specific test purposes.

TARGET SYSTEMS ENGINEERING (5.3.1.1/531100_) - Provides the systems engineering competency for target life-cycle technical support.

TARGET DESIGN ENGINEERING (5.3.1.2/531200_) - Provides the design and specialty engineering competency for the life-cycle technical support of target systems.

TARGET MODELING AND SIMULATION (5.3.1.2.1/531210_) - Provides the necessary technical competencies to support modeling and simulation.

TARGET CONTROL SYSTEMS (5.3.1.3/531300_) - Responsible for the operations and maintenance of the ground-based ITCS, Microwave Data Link System. Performs IMA level tests, repairs, and calibration services in support of ITCS AN/DKW transponders and full scale and subscale Ground Support Equipment (GSE) for command control applications, and provide electromechanical prototype and fabrication support for unique target auxiliary equipment applications.

ADVANCED TARGETS (5.3.1.4/531400_) - Provides systems engineering, design, and specialty-engineering competencies necessary for life-cycle technical support of assigned advanced targets.

SURFACE TARGET ENGINEERING (5.3.1.5/531500_) - Provides the design and specialty engineering competencies necessary for life-cycle technical support of surface target systems.

TARGET OPERATIONS (5.3.2/532000_) - Provides the resources to provide target operational services for weapon system and target development, test and evaluation, fleet operations, and fleet training. Services are provided on a worldwide basis using surface and airborne targets including: subscale, fullscale, and aerial tow targets; boat-sized, ship-sized and towed seaborne targets. The support includes use of target augmentation systems (such as scoring, electronic and passive countermeasures, radar cross section enhancement/reduction, infrared enhancement) and the capability to provide unique target modifications tailored to user peculiar one time requirements.

ENGINEERING SUPPORT (5.3.2.1/532100_) - Responsible for providing operational engineering support encompassing design, fabrication, analysis, and test and evaluation of; aerial target systems tow target systems and target auxiliary/augmentation systems. Provides engineering and technical services for the implementation and continuation of ongoing target command and control programs, provides consultation and review support for new and proposed target command and control programs and studies.

FULL-SCALE AERIAL TARGETS (5.3.2.1.1/532110_) - Responsible for providing operational engineering support encompassing design, fabrication, analysis, and test and evaluation of; aircraft target systems, tow target systems and target auxiliary/augmentation systems. Provides engineering and technical services for the implementation and continuation of ongoing target projects, provides consultation and review support for new and proposed aircraft target projects and studies.

SUB-SCALE AERIAL TARGETS (5.3.2.1.2/532120_) - Responsible for providing operational engineering support encompassing design, fabrication, analysis, and test and evaluation of subscale aerial target-unique projects and their respective target auxiliary/augmentation systems. Provides engineering and technical services for the implementation and continuation of ongoing projects, provides consultation and review support for new and proposed projects and studies.

SUB-SCALE MAINTENANCE (5.3.2.2/532200_) - Responsible for providing maintenance, flight preparation, operations, and evaluation testing of subscale target systems and related equipment.

QUALITY CONTROL (5.3.2.2.1/532210_) - Responsible for maintaining configuration control of all assigned target systems; maintaining records and determining the feasibility of all modifications of targets and subsystems; maintaining logs and records on maintenance and shop work orders for all related target efforts; analyzing operational data; and providing recommendations to management for determining the feasibility of operations.

MAINTENANCE CONTROL (5.3.2.2.2/532220_) - Responsible for performing inspections, repairs, configuration, modifications, and maintenance on subscale missile target systems, subsystems, and ancillary devices; supporting engineering and contractor effort in the testing, evaluating, and qualifying of new target systems; planning, directing, and performing organizational and intermediate (drone peculiar) level maintenance on targets and subsystems; maintaining a ready inventory of subscale missile targets for deployed target operations; providing target services to the Fleet on a worldwide basis; and providing depot level maintenance for peculiar targets; responsible for Tomahawk missile decontamination; performs depot level maintenance on J-85 jet engines.

MATERIAL CONTROL (5.3.2.2.3/532230_) - Responsible for providing material and tool control; providing accountability for ground support equipment (GSE); and procuring, storing, and issuing material and equipment required for support of subscale missile targets.

ADVANCED TARGETS MAINTENANCE (5.3.2.2.4/532240_) - Responsible for maintaining and operating all Advanced Target vehicles and subsystems. This includes repairs, configurations, modifications, accountability, and maintaining logs and records on maintenance and shop work.

FULL-SCALE/TOW SYSTEMS (5.3.2.3/532300_) - Responsible for maintenance of drone systems and subsystems of the QF-4 target aircraft; provides Drone set-up duties and airfield launch and recovery support during FSAT operations at Point Mugu, China

Lake, and deployed locations; supports maintenance and operation of the Universal Control Consoles (UCC) at Point Mugu, China Lake, and AFWTF; supports FSAT payload integration; fabricates FSAT Flight Termination System (FTS) equipment; provides aerial target/tow target upload and download support services for NAWCWPNS and Fleet activities. Provides operations, technical services, depot-OMA-IMA level maintenance support for the MQM-8 (VANDAL) target.

FSAT/TOW SUPPORT (5.3.2.3.1/532310_) - Responsible for the inspection, repair, configuration, modification, and maintenance of QF-4 FSAT drone target systems, subsystems, and ancillary equipment; performing airfield launch and recovery support for FSAT operations including installation/removal and arming/de-arming of flight termination system; maintenance for the FSAT visual reference system (TV); production capability for FSAT flight termination systems including acquisition of components and subsystems, fabrication and test, storage and control of inventory; aerial target/tow target upload/download operations support services for NAWCWPNS; launch, in-flight control, and recovery services in support of tow target operations; electromechanical prototype and fabrication support for unique tow/aerial target auxiliary equipment applications; oma-ima-iran, and upload/download support services for the LAU-24 launcher; launcher and target upload support services on the C-130 aircraft for the BQM-74 and BQM-34 missile target drones; upload/download support services for the AQM-37 missile target; provides ordnance procurement, logistics, build-up, and arming/dearming services for aircraft/target ordnance systems

VANDAL SUPPORT (5.3.2.3.3/532330_) - Responsible for the operations, maintenance, technical direction, and flight preparation for the MQM-8 (VANDAL) full-scale missile target and MQM-8 systems; maintenance of MQM-8 launch platforms and maintaining a target project team to conduct test and evaluation of the VANDAL target system and development of advanced subsystems; provides VANDAL target services to the Fleet on a worldwide basis; and provides intermediate and depot level support for VANDAL target systems.

OPERATIONS (5.3.2.4/532400_) - Responsible for providing the target test scenario planning and documentation to meet the users requirements; providing test conductors, target controller personnel, range scheduling and coordination services, and execution of target presentations worldwide for operational, T&E, and developmental customers.

AUGMENTATION SUPPORT (5.3.2.4.1/532410_) - Responsible for managing acquisition coordination, documentation, assembly, and control of NAWCWPNS-type and airframe change target augmentation installation kits and providing technical services to engineers as design and development are converted to engineering documents for fabrication, procurement, and production.

SEABORNE TARGETS (5.3.2.5/532500_) - Responsible for providing services, as required, for the presentation of Surface Targets for weapons test and evaluation, surface target test and evaluation, and for Fleet training at the NAWCWPNS ranges and at other Seaborne Target operating sites.

SEABORNE OPERATIONS (5.3.2.5.1/532510_) - Responsible for providing services, as required, for the presentation of Surface Target Systems and operation of all target boats and ships; materials and technical expertise for mooring and unmooring, drifting, and recovery of target boats and ships; fabricating and operating special purpose targets that can be used as tow or drifting targets; performing maintenance on assigned support equipment; fabricating, installing, calibrating, and operating remote control systems for moored, drifting, and underway target ships and boats; and performing periodic inspection and coordination of preventive maintenance procedures of all operational surface target ships, boats, and open-ocean moorings

SEABORNE MAINTENANCE (5.3.2.5.2/532520_) - Responsible for maintaining land based and seaborne surface target systems in support of assigned programs; performing intermediate and depot level maintenance on all assigned surface targets and target systems; installing special auxiliary and deception equipment on surface targets; coordinating/performing major repair service to damaged target ships and boats and their subsystems.

SURFACE CRAFT (5.3.2.5.3/532530_) - Responsible for providing range clearance services for the NAWCWPNS sea test range. Includes test area boundary security, range surveillance, target escort, and recovery operations

AIRBORNE THREAT SIMULATION (5.3.4/534000_) - Provides the resources to design, develop, specify, document, fabricate, procure, integrate, install, test, evaluate, calibrate, configure, operate, repair, and maintain systems to provide an EW threat simulation environment which is necessary for use in the test and evaluation of Navy and Joint Service acquisition programs and Fleet operation / training.

SIMULATOR SYSTEMS SUPPORT (5.3.4.1/534100_) - Performs operational Fleet support, production support, and in-service engineering and operator familiarization of electronic countermeasures and radar signal threat simulators. Supports Fleet tactical contingency employments and operator training.

EMITTER SYSTEMS SUPPORT (5.3.4.1.1/534110_) - Responsible for operational Fleet support, production support, in-service engineering, and operator familiarization of radar signal threat simulators.

ELECTRONIC COUNTERMEASURES SUPPORT (5.3.4.1.2/534120_) - Responsible for operational Fleet support, production support, in-service engineering, operator familiarization of electronic countermeasures threat simulators, and supports Fleet tactical contingency employment's and operator training.

AERO/MECHANICAL (5.3.4.2/534200_) - Responsible for the fabrication, certification, production support, installation, and integration of radar signal threat simulators, electronic countermeasures systems, aircraft avionics, and test sets.

DEVELOPMENTAL TECHNOLOGY (5.3.4.3/534300_) - Develops and provides the electronic countermeasures and radar signal threat environments used to test air and surface weapon systems and train fleet weapon and radar system operators.

EMITTER TECHNOLOGIES (5.3.4.3.1/534310_) - Performs threat analysis, projects future threats for aircraft and ship platforms, and develops radar signal threat simulators.

ELECTRONIC COUNTERMEASURES TECHNOLOGIES (5.3.4.3.2/534320_) - Performs threat analysis, projects future threats for weapon systems, and develops electronic countermeasures threat simulators.

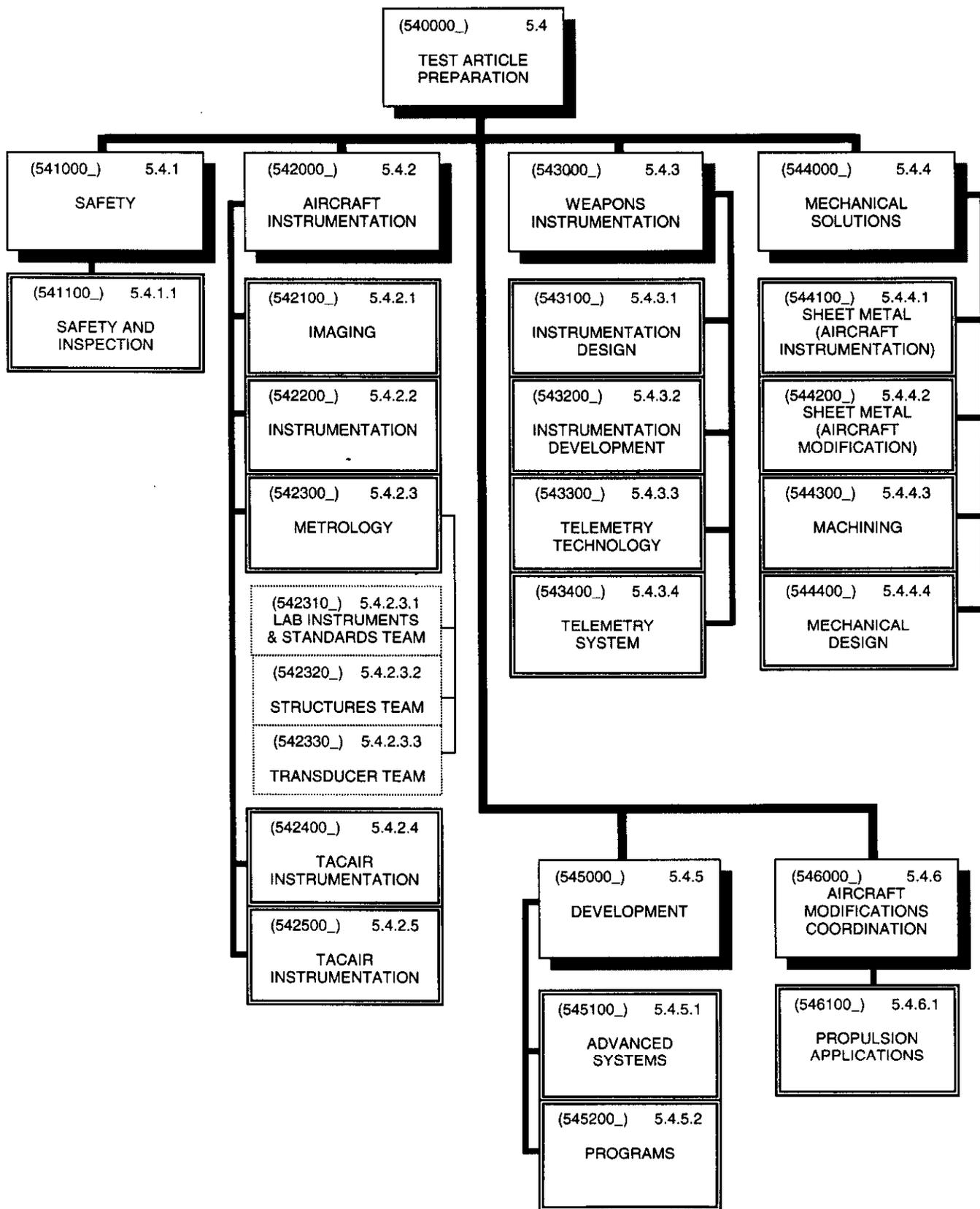
COMBAT ENVIRONMENT SIMULATION (5.3.5/535000_) - Provides the resources to design, develop, specify, document, fabricate, procure, integrate, install, test, evaluate, calibrate, configure, operate, repair, and maintain systems to provide a combat environment, which is necessary for use in the test and evaluation of Navy and Joint Service acquisition programs and Fleet operation/training.

COMBAT ENVIRONMENT SOFTWARE (5.3.5.1/535100_) - Provides engineering support for the Aircrew Electronic Warfare Training Range (AEWTR), the joint service Tactical Aircrew Combat Training System (TACTS), and Aircrew Combat Training System (ACTS) programs. Provides real time software engineering to develop, test, and integrate TACTS/ACTS software at the TARIF facility. Additionally, provides technical expertise required to support development of EW subsystems for computer generated threat simulation systems. Provides engineering to support development and systems integration of AEWTR EW threat simulators and the AEWTR software support activity.

EC THREAT SIMULATOR (5.3.5.2/535200_) - Provides engineering, analysis, design, and development for the acquisition, test, and installation of electronic combat threats and associated control and instrumentation systems for RDT&E and tactical training ranges. Provides engineering and technical support to CROSSBOW-S and the OT&E Central T&E Investment Program.

TACTICAL AIR RANGES (5.3.5.3/535300_) - Provides full spectrum Software Support Activity services for USN TACTS Ranges and USAF ACTS Ranges. Develops, operates, and maintains the TARIF Software Support Facility (SSF) and its ACTS/TACTS Range, Software Library, and software development laboratory in support of the development, integration, and testing of ACTS/TACTS enhancements. Provides software configuration management support for all ACTS/TACTS projects at NAWCWPNS and serve as the focal point for ACTS/TACTS ground systems software.

**TEST ARTICLE PREPARATION
(5.4/540000_)**



TEST ARTICLE PREPARATION (5.4/540000_) - Provides the resources to design, develop, procure, build, install, test, evaluate, calibrate, configure, operate, and maintain test article instrumentation or modifications for flight test aircraft, weapons under test, and engines under cell test.

SAFETY (5.4.1/541000_) - Provides the resources to provide oversight of all safety issues within Test Article Preparation. This includes (but is not limited to) flight safety of modified test articles, flight clearance issues, safety processes, personnel safety, and assuring compliance with all applicable safety regulations.

SAFETY AND INSPECTION (5.4.1.1/541100_) - Responsible for ensuring compliance with established safety practices relative to aircraft mechanical, electrical wiring, and equipment installation. Performs quality assurance inspections of contractor installed aircraft instrumentation systems.

AIRCRAFT INSTRUMENTATION (5.4.2/542000_) - Provides the resources to design, develop, build, install, test, evaluate, calibrate, configure, operate, and maintain aircraft instrumentation.

IMAGING (5.4.2.1/542100_) - Provides the resources to design, develop, procure, fabricate, install, test, evaluate, calibrate, configure, operate, and maintain airborne imaging and related photographic systems.

INSTRUMENTATION (5.4.2.2/542200_) - Provides the resources required to provide full spectrum instrumentation services in support of the TACAIR, Force, and Rotary Wing aircraft and aircraft subsystems. The services include instrumentation systems design, development, procurement, fabrication, installation, calibration, test operations, and maintenance support.

METROLOGY (5.4.2.3/542300_) - Responsible for providing metrology engineering and analysis, as well as calibration and repair support to the METCAL Program and external customer base. Responsible for the procurement, fabrication, and calibration of airborne instrumentation and transducers in support of aircraft instrumentation and fleet metrology programs. This group has generic structural test competencies (e.g., strain gage installation, stress analysis, hydraulics, mechanics, statistical analysis, fatigue and static test, CAD, etc.).

LABORATORY INSTRUMENTS AND STANDARDS TEAM (5.4.2.3.1/542310_) – Responsible for providing Metrology engineering and analysis, as well as calibration and repair support to METCAL program and external customer base.

STRUCTURES TEAM (5.4.2.3.2/542320_) – Responsible for the procurement, fabrication, and calibration of airborne instrumentation in support of aircraft instrumentation and fleet metrology programs. This group has generic structural test competencies (e.g., strain gage installation, stress analysis, hydraulics, mechanics, statistical analysis, fatigue and static tests, CAD, etc.).

TRANSDUCER TEAM (5.4.2.3.3/542330_) – Responsible for the procurement fabrication and calibration of airborne instrumentation and transducers in support of aircraft instrumentation and fleet metrology programs.

TACAIR INSTRUMENTATION (5.4.2.4/542400_) - Responsible for full spectrum instrumentation services in support of tactical aircraft and aircraft subsystems at China Lake. The services include instrumentation systems design, development, procurement, fabrication, installation, calibration, test operations, and maintenance support.

TACAIR INSTRUMENTATION (5.4.2.5/542500_) – Responsible for full spectrum instrumentation services in support of tactical aircraft, and aircraft subsystems at Point Mugu. The services include instrumentation systems design, development, procurement, fabrication, installation, calibration, test operations, and maintenance support.

WEAPONS INSTRUMENTATION (5.4.3/543000_) - The resources required to design, develop, specify, document, build, procure, integrate, encrypt, install, test, evaluate, calibrate, configure, operate, repair, and maintain weapon instrumentation, telemetry and flight termination for missiles, bombs, targets, platforms, and related systems.

INSTRUMENTATION DESIGN (5.4.3.1/543100_) - Responsible for the research, design, and development of instrumentation and telemetry for weapon systems including the use of application specific architectures, computer-aided engineering, and other tools required for the electronic and mechanical design of conventional and adaptive instrumentation and telemetry systems.

INSTRUMENTATION DEVELOPMENT (5.4.3.2/543200_) – Provides the resources necessary for the design, development, fabrication, and operation of instrumentation and telemetry test systems, antennas, and specialized microwave components; and applies new software methodologies in processing conventional and adaptive telemetry systems.

TELEMETRY TECHNOLOGY (5.4.3.3/543300_) – Responsible for the design and development of secure telemetry systems involving state-of-the-art techniques applying to encryption or protection of weapons systems test data. Provides resources necessary for development, testing, and operations support for secure telemetry systems.

TELEMETRY SYSTEM (5.4.3.4/543400_) – Responsible for the design and development of secure telemetry systems, test equipment, procedures, and documentation packages with an emphasis on production aspects.

MECHANICAL SOLUTIONS (5.4.4/544000_) – Provides the resources to build and install test article instrumentation or modifications.

SHEET METAL (AIRCRAFT INSTRUMENTATION) (5.4.4.1/544100_) - Modifies aircraft structures and installs test systems to support test vehicle/platform configuration development at Patuxent River. Provides expertise and materials to fabricate, from sheet metal and extrusions, prototype devices, and components to support test article instrumentation and concurrent engineering.

SHEET METAL (AIRCRAFT MODIFICATION) (5.4.4.2/544200_) - Modifies engine test stands, altitude test cells, compressors, rotating machinery, etc., to support test installations, test rigs, and test facility systems for supporting engine, component, and accessory testing at Trenton.

MACHINING (5.4.4.3/544300_) - Provides the people, skills, facilities, and materials required at Patuxent River to fabricate using machine tools, prototype devices, and components to support: test article instrumentation, test vehicle, and platform configuration development and concurrent engineering.

MECHANICAL DESIGN (5.4.4.4/544400_) - Provides the resources required at Trenton to fabricate using machine tools, prototype devices, and necessary parts required for preparation, installation, modification, and operation of engines and components in their testing environment.

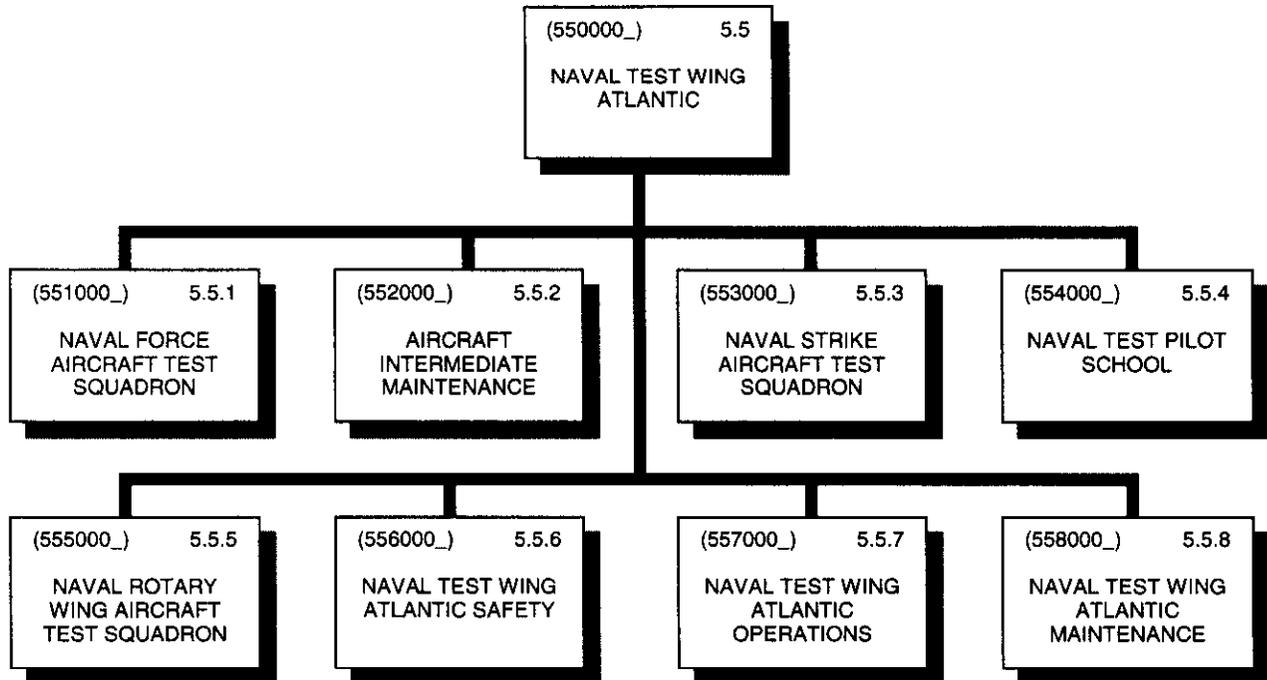
DEVELOPMENT (5.4.5/545000_) - Provides the resources required for the research, design, development, and fabrication of advanced instrumentation systems.

ADVANCED SYSTEMS (5.4.5.1/545100_) - Responsible for the research, design, development, and fabrication of advanced instrumentation systems. Performs tests and experiments on airborne instrumentation systems to improve existing systems. Applies new technologies and designs to solve test instrumentation needs by providing instrumentation hardware not available on commercial market.

PROGRAMS (5.4.5.2/545200_) - Provides the resources to execute aircraft instrumentation related programs.

AIRCRAFT MODIFICATIONS COORDINATION (5.4.6/546000_) - Provides the resources for tracking the execution of projects in terms of schedule and costs and resolving problem areas, provides interface to the organization's varied customers and coordinates customer requirements (project Coordination Team); assures quality of work and work processes (Quality Assurance Team); and manages/provides oversight of organization's contract personnel (Contract Admin Team).

PROPULSION APPLICATIONS (5.4.6.1/546100_) - Responsible for full spectrum instrumentation services in support of ground testing performed on various types of propulsion systems. Services include instrumentation systems design, development, procurement, fabrication, installation, calibration test operations, and maintenance support.

**NAVAL TEST WING ATLANTIC
5.5/550000_**

NAVAL TEST WING ATLANTIC (5.5/550000_) – Provides the resources to support all Atlantic Coast Naval Air Systems TEAM controlled aircraft and aircraft functions. Includes Strike Aircraft Test Squadron, Rotary Wing Aircraft Test Squadron, Maritime Aircraft Test Squadron, and Test Pilot School.

NAVAL FORCE AIRCRAFT TEST SQUADRON (5.5.1/551000_) - Supports research, test and evaluation of fixed wing Battleforce support and strategic aircraft by providing aircraft and pilot/naval flight officer assets, maintenance services, safety oversight, and facility support. Primary efforts include flying qualities and performance evaluations, shipboard suitability, propulsion system testing, AEW, ASW, and strategic aircraft mission systems testing, ordnance compatibility and ballistics, reliability and maintainability assessments, flight fidelity simulation, and flight control software development. Also provides Government Flight Representative services, test monitoring, chase aircraft support, and facilities management for contractor demonstration, validation, and development work of Force aircraft and associated systems.

AIRCRAFT INTERMEDIATE MAINTENANCE (5.5.2/552000_) - Manned with military, civil service, and contractor personnel consists of avionics, machine, structures, NDI, tire/wheel, paint, and hydraulics shops, a paraloft, jet engine,

armament, and support equipment repair facilities supporting in excess of 45 different type/model/series component repair in support of FMS and is the Navy's only Pioneer Unmanned Air Vehicle (UAV) I-level repair facility.

NAVAL STRIKE AIRCRAFT TEST SQUADRON (5.5.3/553000_) – Supports research, test and evaluation of fixed wing tactical aircraft and Unmanned Air Vehicles by providing aircraft and pilot assets, maintenance services, safety oversight, and facility support. Primary efforts include flying qualities and performance evaluations, shipboard suitability, propulsion system testing, tactical aircraft mission systems testing, ordnance compatibility and ballistics, reliability and maintainability assessments, flight fidelity simulation, and fight control software development. Also provides Government Flight Representative services, test monitoring, chase aircraft support, and facilities management for contractor demonstration, validation, and development work of tactical aircraft and associated systems.

NAVAL TEST PILOT SCHOOL (5.5.4/554000_) – Provides instruction to experienced pilots, naval flight officers, and flight test engineers in the processes and techniques of aircraft and systems test and evaluation. The school educates and trains personnel from all U.S. military services, other U.S. Government agencies, and foreign nations. In addition to the full eleven-month curriculum, the school offers short courses of instruction for the test and evaluation community.

NAVAL ROTARY WING AIRCRAFT TEST SQUADRON (5.5.5/555000_) – Naval Aviation's primary test and evaluation organization providing support for the acquisition of information on the performance of Navy and Marine Corps rotorcraft and tilt-rotor rotorcraft. Tests are conducted on prototype, development, production, and in-service integrated weapon systems platforms providing technical information from controlled and fleet mission related test conditions. The squadron provides aircraft, facilities, aircrew, and maintenance and test personnel to support the safe conduct of ground and flight testing on shore and at sea. Test support capabilities include the conduct of flying qualities and performance, software, structural, propulsion, simulator, weapon separation, and shipboard suitability testing.

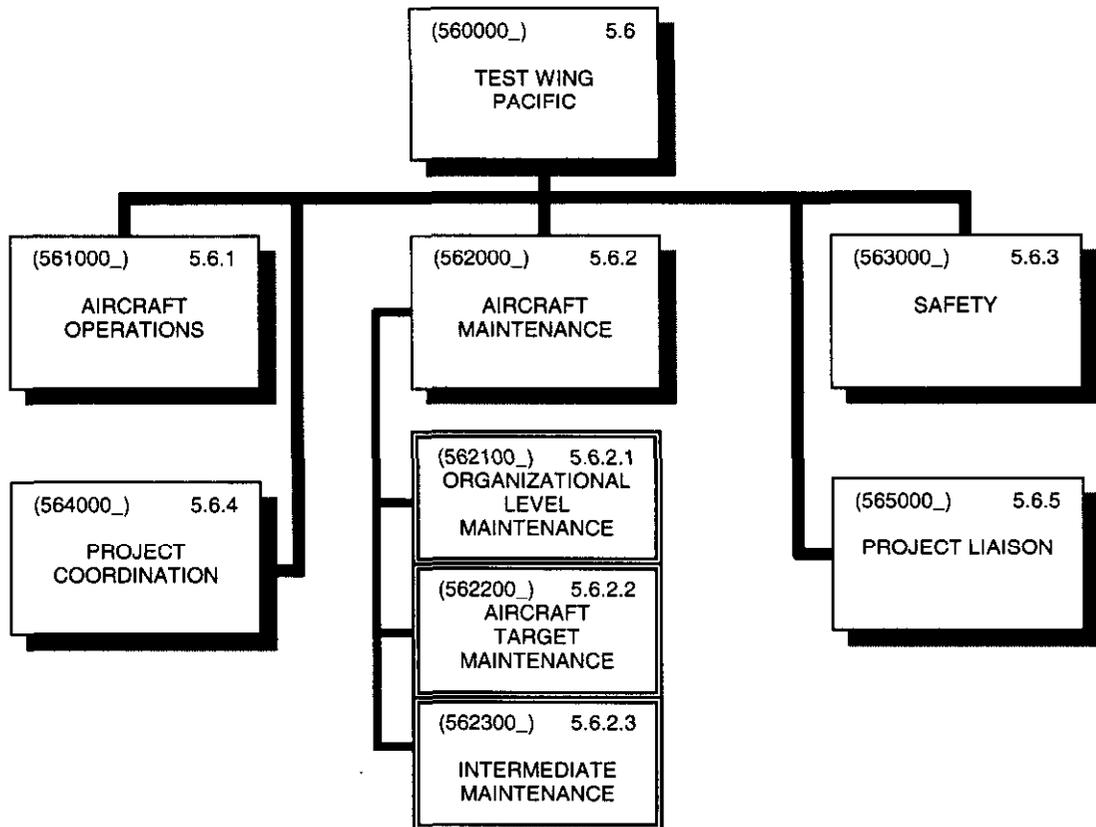
NAVAL TEST WING ATLANTIC SAFETY (5.5.6/556000_) - Responsible for advising the Commanding Officer, NTWL on matters relating to aviation safety and for the dissemination of safety related information and materials to the squadrons and supporting activities. Coordinates the reporting of aviation-related hazards, incidents, and mishaps. Provides guidance to ensure timely and meaningful safety training to include safety standdowns, Aircrew Coordination Training, range and equipment usage, and airspace management. Researches new and innovative risk mitigation efforts and coordinates the implementation of risk management at the squadron and activity level. Sponsors and administers external safety assist and audit

efforts. This office is dual-hatted as the NAWCAD Aviation Safety Office. Therefore, responsible for administering aviation safety policy to all NAWCAD activities.

NAVAL TEST WING ATLANTIC OPERATIONS (5.5.7/557000_) – Responsible for monitoring Wing aircraft assignment, utilization, airspace, and airfield operations and status. Directly responsible for the management of funding provided to maintain and operate aircraft conducting RDT&E for the Wing.

NAVAL TEST WING ATLANTIC MAINTENANCE (5.5.9/559000_) - Responsible for the resources to provide a safety environment for all TEAM controlled aircraft and aircrew. Ensures compliance with the Naval Aviation Maintenance Program and all related aircraft maintenance/configuration directives. Exercises cognizance over plans, policies, and procedures relating to material condition and readiness of Naval Test Wing Atlantic aircraft.

**TEST WING PACIFIC
5.6/560000_**



TEST WING PACIFIC (5.6/560000_) – Provides resources to provide support for Pacific Coast Naval Air Systems TEAM controlled aircraft and aircraft functions. Includes Weapons Test Squadron, China Lake and Weapons Test Squadron, Point Mugu.

AIRCRAFT OPERATIONS (5.6.1/561000_) - Provides resources in support of Operations and Flight Test Support for Weapons Test Squadron China Lake and Weapons Test Squadron Point Mugu aircraft.

AIRCRAFT MAINTENANCE (5.6.2/562000_) – Provides the resources required to provide maintenance support for all Pacific Coast Naval Air Systems TEAM controlled aircraft and aircraft functions.

ORGANIZATIONAL LEVEL MAINTENANCE (5.6.2.1/562100_) – Provides the resources required to provide organizational level maintenance of Pacific Coast TEAM aircraft and ground and life support equipment in accordance with the Naval Aviation Maintenance Program (OPNAVINST 4790).

AIRCRAFT TARGET MAINTENANCE (5.6.2.2/562200_) - Provides maintenance flight preparations and evaluation testing support on T&E and operational target aircraft.

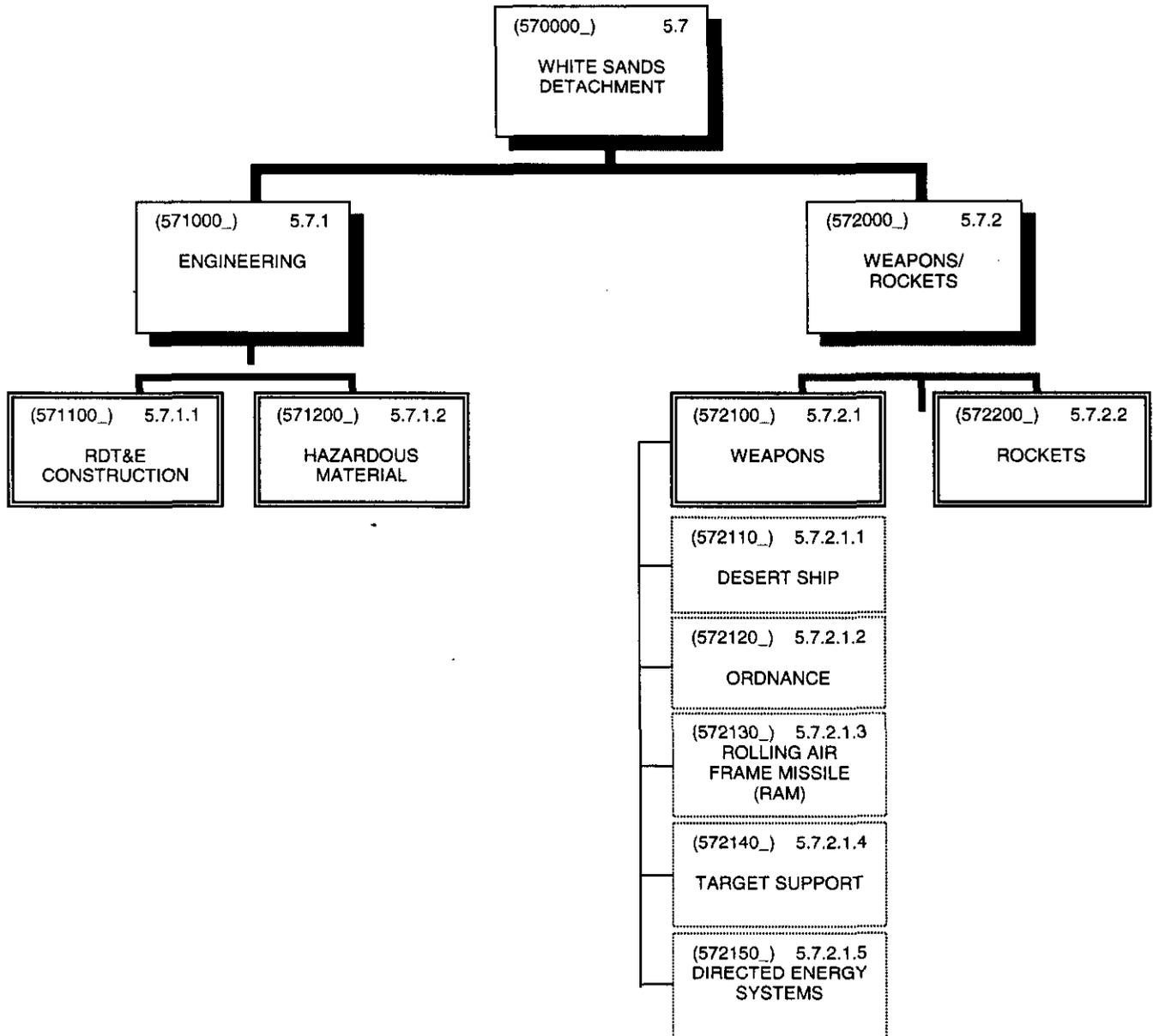
INTERMEDIATE MAINTENANCE (5.6.2.3/562300_) - Provides the resources required to provide the intermediate level maintenance of Pacific Coast TEAM aircraft and ground and life support equipment in accordance with the Naval Aviation Maintenance Program (OPNAVINST 4790).

SAFETY (5.6.3/563000_) – Provides the resources required to provide a safe operating environment for all Pacific Coast Naval Air Systems TEAM controlled aircraft and aircrew.

PROJECT COORDINATION (5.6.4/564000_) – Provides the resources to provide direct technical and operational aircraft support to projects and teams.

PROJECT LIAISON (5.6.5/565000_) - Provides test aircraft support through design, fabrication, installation of airborne systems and instrumentation in aircraft, pods, and missiles. As central engineering, design, documentation, configuration management, and safety review of proposed aircraft modifications. Also provides computer system management support for the Weapons Test Squadron, China Lake.

**WHITE SANDS DETACHMENT
5.7/570000_**



WHITE SANDS DETACHMENT (5.7/570000_) – Provides the resources required to provide quality support and responsive technical and material support to the fleet for land-based flight test and evaluation of naval weapons systems and directed energy systems and subsystems. Also, support as the launch agent for suborbital space systems and research rockets. Serves as Deputy for the Navy on the staff of the Commanding General, White Sands Missile Range.

ENGINEERING (5.7.1/571000_) - Provides the resources required to provide quality and responsive engineering support to the internal and external customer. Includes design, fabrication, construction, weight handling, transportation and maintenance of magazines, launchers, and facilities.

RDT&E CONSTRUCTION (5.7.1.1/571100_) - Provides the resources required to provide quality RDT&E construction support to our internal and external customers.

HAZARDOUS MATERIAL (5.7.1.2/571200_) - Provides the resources required to provide quality Environmental support to our internal and external customers.

WEAPONS/ROCKETS (5.7.2/572000_) - Provides the resources required to provide quality and responsive technical and material support to the fleet for the land-based flight test and evaluation of naval weapons systems, directed energy systems, and subsystems.

WEAPONS (5.7.2.1/572100_) - Provides the resources required to provide quality and responsive technical and material support to the fleet for the land-based flight test and evaluation of naval weapons systems, directed energy system, and subsystems.

DESERT SHIP (5.7.2.1.1/572110_) - Provides the resources required to operate the Navy's land based test site known as Desert Ship (LLS-1).

ORDNANCE (5.7.2.1.2/572120_) - Provides the resources required to accomplish ordnance research and development assembly, disassembly, and test and evaluation operations.

ROLLING AIR FRAME MISSILE (RAM) (5.7.2.1.3/572130_) - Provides the resources required to operate the Rolling Air frame Missile test site.

TARGET SUPPORT (5.7.2.1.4/572140_) - Provides the resources required to assemble, repair, operate, and recover Drone Targets and the construction of land sites.

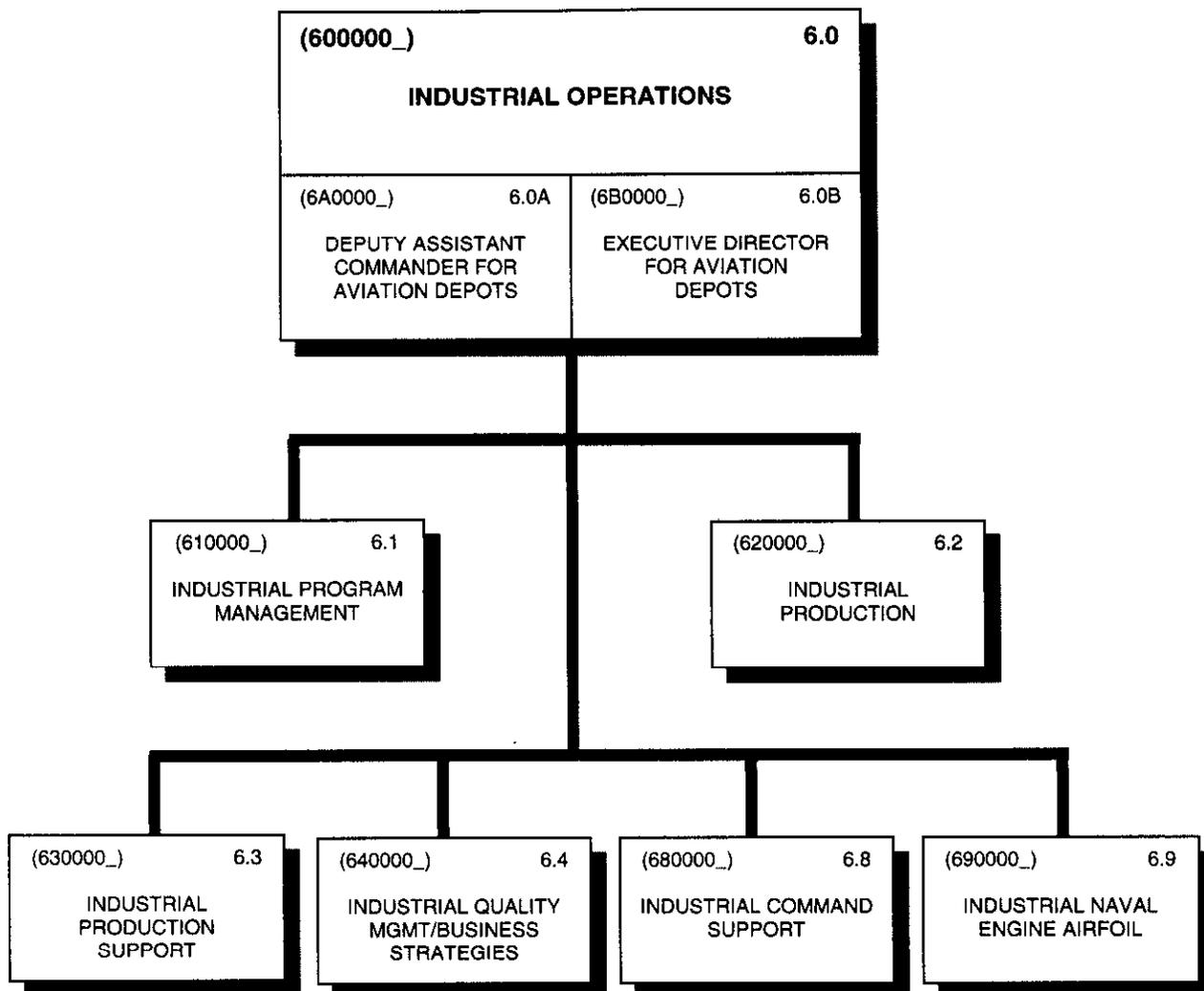
DIRECTED ENERGY SYSTEMS (5.7.2.1.5/572150_) - Provides the resources required to accomplish research and development assembly, disassembly, and test and evaluation operations of Directed Energy Systems.

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ROCKETS (5.7.2.2/572200_) - Provides the resources required to assemble and launch Low Cost Ballistic Targets and to operate the NASA assembly and launch test sites.

**INDUSTRIAL OPERATIONS
6.0/600000_**

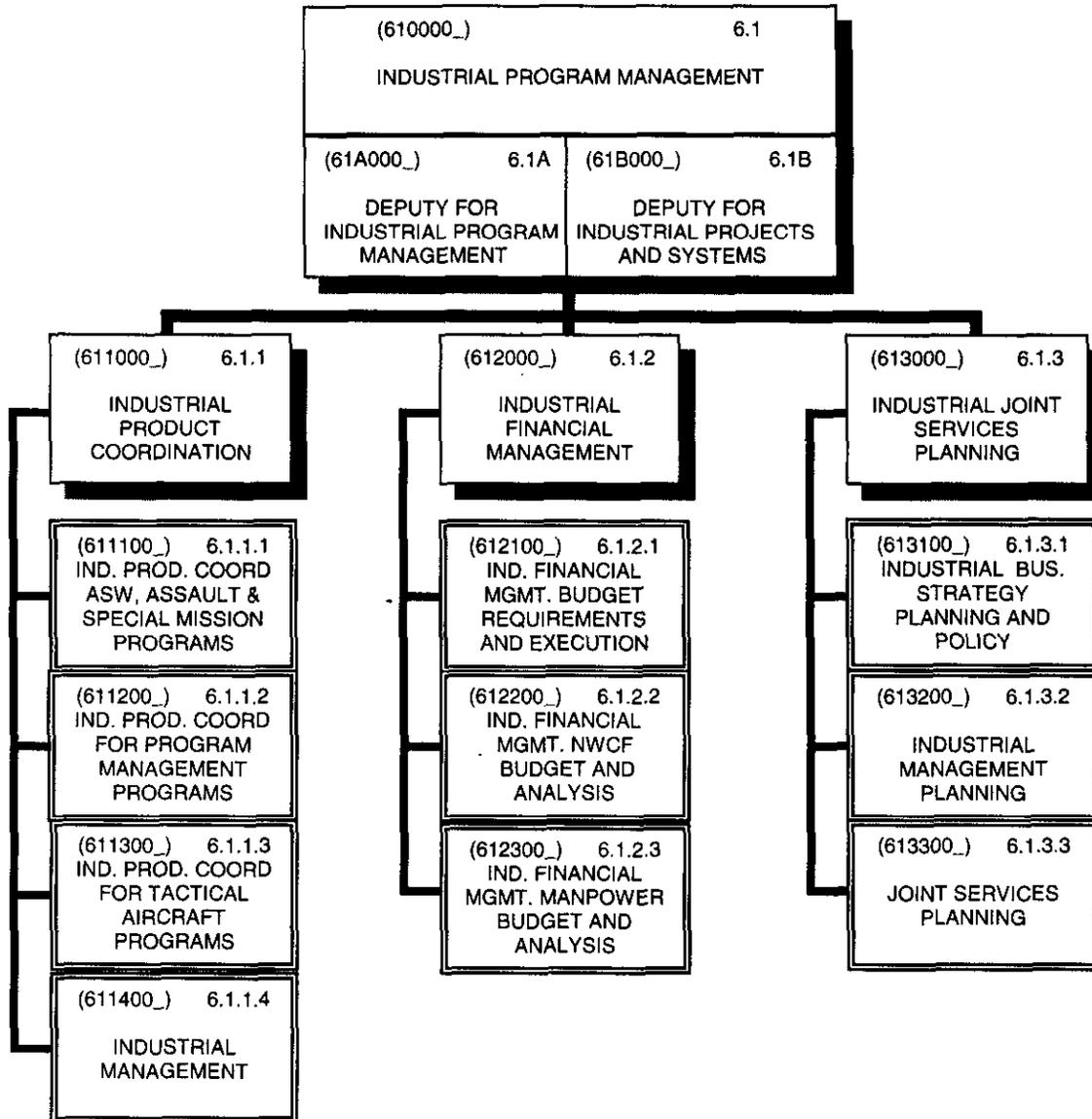


INDUSTRIAL OPERATIONS (6.0/600000_) - Competency leadership echelon for the resources required to perform depot level maintenance and repair of aircraft, engines, components, and other aeronautical equipment, and to perform manufacturing/prototyping operations. The national lead for the Industrial Operations Competency is the Assistant Commander for Aviation Depots.

DEPUTY ASSISTANT COMMANDER FOR AVIATION DEPOTS (6.0A/6A0000_)

EXECUTIVE DIRECTOR FOR AVIATION DEPOTS (6.0B/6B0000_)

**INDUSTRIAL PROGRAM MANAGEMENT
6.1/61000_**



INDUSTRIAL PROGRAM MANAGEMENT (6.1/61000_) - Effectively manages and controls industrial resources across the entire NAVAIRSYSCOM TEAM. Process scope includes disciplines spanning industrial product coordination, financial management, and planning. Depot maintenance requirements throughout a weapon system, life cycle are accommodated in this competency. Through close coordination with platform and commodity program managers, workload and resource requirements are identified, planning is accomplished, budgets are developed, resource allocation is initiated, and budget execution is performed. All industrial rates, manpower and Navy Working Capital Fund

(NWCF) funding budgets are prepared and submitted by this competency. Industrial strategic planning and policy, posture planning and planning related to Joint Service requirements are also accomplished.

DEPUTY FOR INDUSTRIAL PROGRAM MANAGEMENT (6.1A/61A000_) -

Leads the effort to provide effective Naval Aviation Depot support for the fleet and the NAVAIR program offices and FST's/IPT's via three principle divisions, that is, the Industrial Product Coordination, the Industrial Financial Management, and Joint Services Planning. Provides a fleet perspective and leadership to each PMA AIR-6.0 designated aircraft program representative. Represents AIR-6.0 on business financial manager related matters associated with the annual budget, financial exhibits, and documents. Leads this level 3 organization by providing core analysis for the work accomplished at organic and commercial depot activities. Additionally, represents AIR-6.0 as lead for Aviation Maintenance Supply Readiness, Regional Maintenance Implementation Board, Integrated Maintenance Concept, and on the selected military and civilian program management boards. Also serves as the lead for the AIR-6.0 Community Partnership Program providing tutors and mentors to local schools.

DEPUTY FOR INDUSTRIAL PROJECTS AND SYSTEMS (6.1B/61B000_) -

Technically direct ETs formulated to accomplish strategic planning, legislative assessment, industrial assessment, and re-systematization of industrial management processes. Directs and facilitates cross competency teams to implement enterprise-wide strategies and initiatives to achieve strategic level industrial objectives.

INDUSTRIAL PRODUCT COORDINATION (6.1.1/611000_) - Provides industrial management of all programs having a PMA assigned throughout their life cycle. Working in collaboration with APMLs and program managers, provides industrial requirements coordination to the level 2 and 3 IPTs. Is organized by PEO and provides industrial requirements coordination by weapon system, independent of whether the depot maintenance support is determined to be organic or commercial. As members to IPTs, team input regarding platform-related source selections, industrial capability assessments, depot source of repair analysis, depot interservice requirements, and depot level maintenance reviews of logistic support analysis are coordinated by individuals in this competency.

INDUSTRIAL PRODUCT COORDINATION ASW, ASSAULT AND SPECIAL MISSION PROGRAMS (6.1.1.1/611100_) -

Responsible for industrial management of all ASW, Assault and Special Mission Programs having a PMA assigned within PEO(A) throughout their life cycle. Serves as the principle industrial support coordinator for all hardware contained on or required in support of assigned

aircraft and missile systems which require depot level maintenance. Serves as a member of the PEO(A) staff providing technical and executive advice relative to industrial matters relating to PEO(A) programs. Reviews all major program documentation to ensure that programs are compliant with all DOD/SECNAV/NAVAIR industrial requirements and policies and to further ensure the attainment of program objectives.

INDUSTRIAL PRODUCT COORDINATION FOR PROGRAM MANAGEMENT PROGRAMS (6.1.1.2/611200_) - Responsible for industrial management of all AIR-1.0/out-of-production programs having a PMA assigned within AIR-1.0, throughout their life cycle. Serves as the principle industrial support coordinator for all hardware contained on or required in support of assigned aircraft which require depot level maintenance. Assists AIR-1.0 in resolving critical issues involving or relating to Industrial support matters through direct involvement with program managers, their staffs, competency managers, business units, and/or high ranking members of OPNAV, SECNAV, or OSD staffs.

INDUSTRIAL PRODUCT COORDINATION FOR TACTICAL AIRCRAFT PROGRAMS (6.1.1.3/611300_) - Responsible for industrial management of all Tactical Aircraft Programs having a PMA assigned within PEO(T) throughout their life cycle. Serves as the principle industrial support coordinator for all hardware contained on or required in support of assigned aircraft and missile systems which require depot level maintenance. Serves as a member of the PEO(T) staff providing technical and executive advice relative to industrial matters relating to PEO(T) programs. Reviews all major program documentation to ensure that programs are compliant with all DOD/SECNAV/NAVAIR industrial requirements and policies and to further ensure the attainment of program objectives.

INDUSTRIAL MANAGEMENT (6.1.1.4/611400_) - Responsible for providing core analysis on all aviation programs throughout their life cycle. This includes efforts to ensure the desired *core* capability is planned to support wartime aviation depot maintenance within public facilities. This is accomplished by analyzing, interpreting, and implementing various policies and plans to derive the size and mix of naval aviation organic workload accomplishment needed for the preservation of critical industrial skills to meet readiness and sustainability objectives.

INDUSTRIAL FINANCIAL MANAGEMENT (6.1.2/612000_) - Provides financial management of industrial resources in support of aviation depot maintenance programs. Responsible for supporting COMNAVAIR-SYSCOM in the development of required aviation depot maintenance POM submits, appropriation budget packages, depot workload, and financial execution coordination. Functions include directing the formulation of budget strategy and guidance for use in the preparation development, justification, and execution of the aviation depot maintenance appropriation budgets and the POM. In addition, is responsible for the financial management of NAVAVNDEPOT NWCF budget development and execution operations. Functions include providing NWCF and general financial management and accounting assistance, developing budget parameters to measure the effectiveness of NWCF financial execution, as well as developing NAVAVNDEPOT personnel requirements for budget submissions and maintaining a system to balance workload, dollars, and personnel.

INDUSTRIAL FINANCIAL MANAGEMENT, BUDGET REQUIREMENTS AND EXECUTION (6.1.2.1/612100_) - Provides financial management of industrial resources in support of aviation depot maintenance programs. Responsible for supporting AIR-6.0 in all matters relating to the aviation depot maintenance appropriation budget and execution plans. Directs the formulation of budget strategy and guidance for use in the preparation and development of the Aviation Depot Maintenance Appropriation budgets and POM. Analyzes, reviews, and evaluates budget data to ensure conformance with higher authority instructions and guidance. Ensures appropriation budget is supportable, executable, and submissions support AIR-6.0 and the overall Navy financial policies, objectives, and strategies.

INDUSTRIAL FINANCIAL MANAGEMENT, NAVY WORKING CAPITAL FUND BUDGET AND ANALYSIS (6.1.2.2/612200_) - Provides financial management of industrial resources and in support of aviation depot maintenance programs. Responsible for supporting AIR-6.0 in all matters relating to the NWCF budget development, financial policy, cost control, accounting policy, and financial execution reporting. Represents AIR- 6.0 and the industrial activities at budget reviews and hearings at NAVAIR, FMB, ASN, and OSD/OMB in all areas that impact NWCF. Analyzes, reviews, and evaluates the impact of budget strategy, policy, and budget adjustments to any area which impacts or affects the NWCF A-11 budget. Ensures that the NWCF A-11

budget is balanced, supportable, and executable with the appropriation and manpower budgets and also that this budget package supports AIR-6.0 and overall Navy financial policies, objectives, and strategies.

INDUSTRIAL FINANCIAL MANAGEMENT, MANPOWER BUDGET AND ANALYSIS (6.1.2.3/612300_) - Provides financial management of industrial resources and in support of aviation depot maintenance programs. Responsible for supporting AIR-6.0 in all matters relating to the development, analysis, and review of NAVANDEPOT workload requirements for POM, appropriation budgets, and execution. Analyzes, reviews, and evaluates processes that maintain and measures balanced workload and personnel plans for the NAVAVNDEPOT's in support of AIR-6.0 and the industrial activities. Ensures that the manpower budget is balanced, supportable, executable with the NWCF budget, and that the budget package supports AIR-6.0 and overall Navy financial policies, objectives, and strategies. Responsible for the preparation and justification of manpower budgets, and represents AIR-6.0 at budget reviews and hearings at NAVAIR, FMB, ASN, and OSD/OMB.

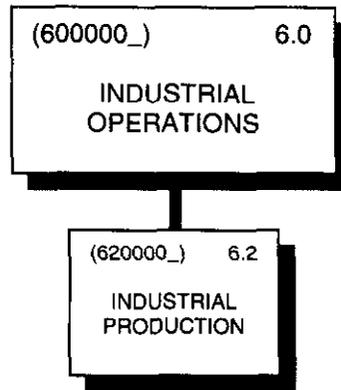
INDUSTRIAL JOINT SERVICES PLANNING (6.1.3/613000_) - Effectively provides joint service planning and depot source of repair decisions. Works with the Navy APMLs and program managers to acquire joint service depot source of repair decisions, and to provide industrial advice to Navy and joint service program offices. Also works to resolve differences and disputes between Navy and other service customers and depots, and to interpret Navy joint depot maintenance policy interested parties at all levels.

INDUSTRIAL BUSINESS STRATEGY PLANNING AND POLICY (6.1.3.1/613100_)

INDUSTRIAL MANAGEMENT PLANNING (6.1.3.2/613200_)

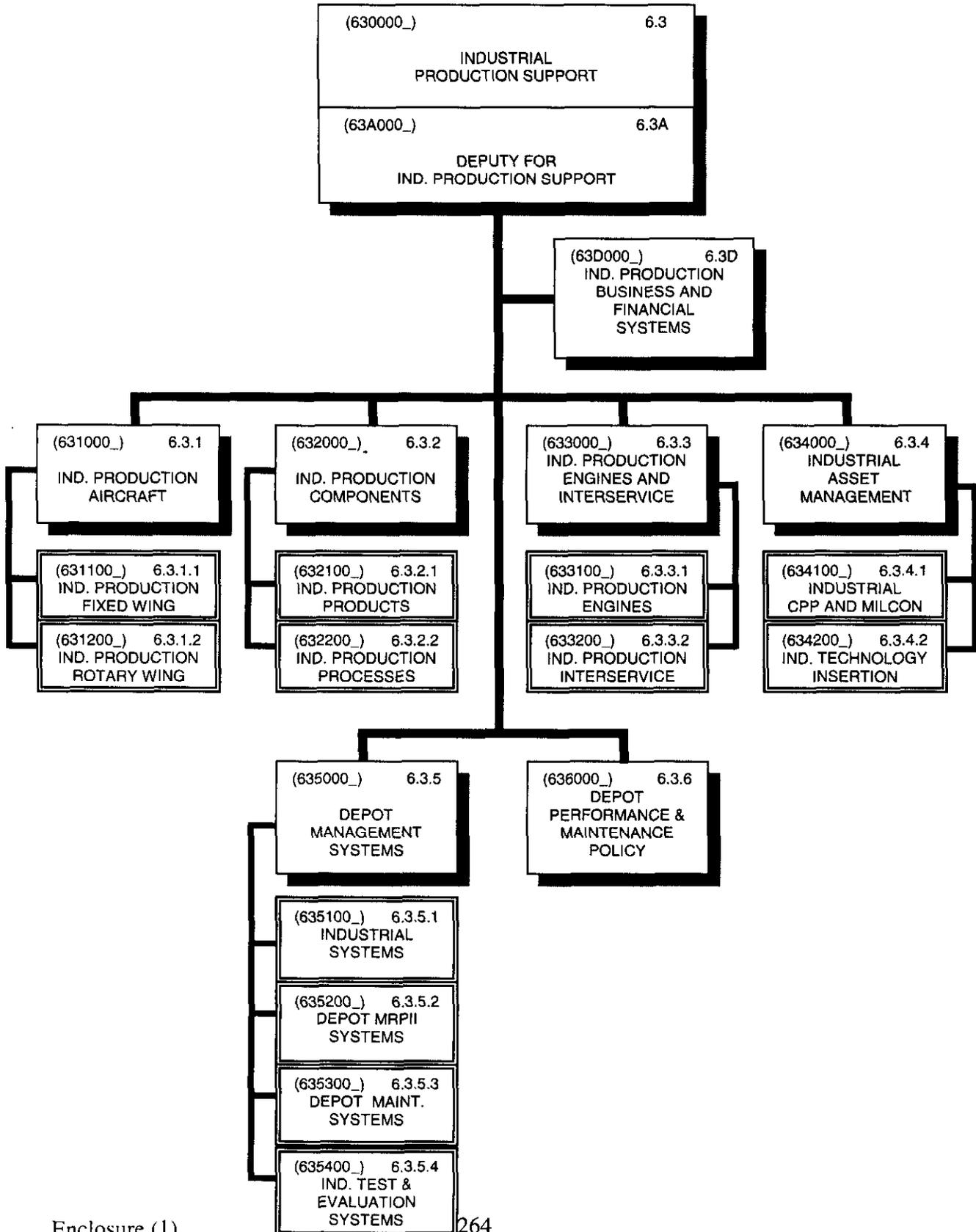
JOINT SERVICES PLANNING (6.1.3.3/613300_)

**INDUSTRIAL PRODUCTION
6.2/620000_**



INDUSTRIAL PRODUCTION (6.2/620000_) – Performs production tasks associated with depot maintenance and manufacturing at the industrial site.

**INDUSTRIAL PRODUCTION SUPPORT
6.3/630000_**



INDUSTRIAL PRODUCTION SUPPORT (6.3/630000_) - Maintains an integrated system for resource management and control needed for depot level maintenance and repair of aircraft, engines, components, and other aeronautical equipment. This includes the identification of workload and resource requirements, management of the TEAM industrial capital investment and system support programs, and performance evaluation.

DEPUTY FOR INDUSTRIAL PRODUCTION SUPPORT (6.3A/63A000_) - Assists in the management and leadership required to maintain an integrated system for resource management and control needed for depot level maintenance and repair of aircraft, engines, components, and other aeronautical equipment. This includes identification of workload and resource requirements, management of the TEAM industrial capital investment and system support programs, and performance evaluation.

INDUSTRIAL PRODUCTION BUSINESS AND FINANCIAL SYSTEMS (6.3D/63D000_) - Defines, plans, and executes the Information Technology (IT) budget and administers IT program contracts.

INDUSTRIAL PRODUCTION AIRCRAFT (6.3.1/631000_) - Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of aircraft production. This includes: establishment of aircraft unit value estimates for each aircraft Type/Model/Series (TMS) to support out year appropriation and A-11 budget preparation that result in TMS specific aircraft workload standards; generation of a master induction schedule prior to the start of a given fiscal year and respective fiscal year quarters; and quantitative analysis and reporting of financial aircraft completions by application of industrial performance overview metrics. Also facilitates the business process re-engineering efforts of the inter-depot Aircraft Process Improvement Team (APIT) and the Process and Productivity Enhancement Program (PPEP).

INDUSTRIAL PRODUCTION FIXED WING (6.3.1.1/631100_) - Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of aircraft production. This includes: establishment of fixed wing aircraft unit value estimates for each aircraft Type/Model/Series (TMS) to support out year appropriation and A-11 budget preparation that result in TMS specific aircraft workload standards; generation of a master induction schedule prior to the start of a given fiscal year and respective fiscal year quarters; and quantitative analysis and reporting of financial aircraft completions by application of industrial performance overview metrics. Provides support for the business process re-engineering efforts

and other initiatives including the inter-depot Aircraft Process improvement Team (APIT) and the Process and Productivity Enhancement Program (PPEP).

INDUSTRIAL PRODUCTION ROTARY WING (6.3.1.2/631200_) -

Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of aircraft production. This includes: establishment of rotary wing aircraft unit value estimates for each aircraft Type/Model/Series (TMS) to support out year appropriation and A-11 budget preparation that result in TMS specific aircraft workload standards; generation of a master induction schedule prior to the start of a given fiscal year and respective fiscal year quarters; and quantitative analysis and reporting of financial aircraft completions by application of industrial performance overview metrics. Provides support for business process re-engineering efforts and other initiatives to include the inter-depot Aircraft Process improvement Team (APIT) and the Process and Productivity Enhancement Program (PPEP).

INDUSTRIAL PRODUCTION COMPONENTS (6.3.2/632000_) -

Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of component manufacturing and repair. Functions include managing and controlling production funding, scheduling, and performance measurement of component repair by organic NADEPs and monitoring all production to support component requirements; allocating workload and assigning priorities; monitoring progress toward production goals and against financial controls; analyzing realized outputs and costs; assigning sources of repair; establishing repair prices; approving adjustments and exceptions to established prices; managing component catalog, production, budget and cost data bases; coordinating process improvement efforts; and providing guidance on approved processes and procedures.

INDUSTRIAL PRODUCTION PRODUCTS (6.3.2.1/632100_) -

Manages and controls production funding, scheduling, and performance measurement of component repair (by organic naval aviation depots or weapon system platform), and monitoring all production to support Fleet requirements; allocates workload and assigns priorities; evaluates and reports progress toward production goals and against financial controls; and analyzes realized outputs and costs.

INDUSTRIAL PRODUCTION PROCESSES (6.3.2.2/632200_) - Establishes repair labor standards; approves adjustments and exceptions to established prices; manages component catalog of fixed prices; coordinates process improvement efforts; and provides guidance on approved procedures and processes. Ensures ADP systems are available and reflect accurate data while interacting with NAVICP and NADEP systems.

INDUSTRIAL PRODUCTION ENGINES AND INTERSERVICE (6.3.3/633000_) - Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of engine and interservice production. This includes: review and approval of aircraft unit value estimates reworked at inter-service depots and all engines reworked at Navy or inter-service depots; conducting quarterly Engine Motorboard and developing execution year workload plans for Navy organic, interservice, and commercial depots; and quantitative analysis and reporting of aircraft induction and completions at inter-service depots and financially competed engines at Navy, inter-service, and commercial depots by application of industrial performance overview metrics. This also includes assignment as the NAVAIR Maintenance Inter-service Support Agreements for the depot level repair of aircraft and engines.

INDUSTRIAL PRODUCTION ENGINES (6.3.3.1/633100_) - Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of engines. This includes: review and approval of engine unit value estimates reworked at Navy organic depots; conducting the Engine Motorboard; providing support to the Propulsion Management Board (PMB); co-chairing the Engine Sustaining Planning Conference; developing execution year workload plans for Navy organic, interservice and commercial depots; participating in business process re-engineering efforts; and quantitative analysis and reporting of engine induction and completion at Navy depots by application of industrial performance overview metrics.

INDUSTRIAL PRODUCTION INTERSERVICE (6.3.3.2/633200_) - Maintains an integrated system of resource management and control for the planning, scheduling, and performance measurement of Interservice aircraft and engines. This includes: review and approval of Navy aircraft and engine unit value estimates reworked at any Interservice depot; chairing the annual Depot Maintenance Interservice meeting with Maintenance Interservice Coordinating Offices; providing support to the

Propulsion Management Board (PMB) and the Engine Motorboard; providing support to program office for establishing the Integrated Maintenance Concept at interservice depots; developing execution year workload plans for Navy workload at interservice depots; and the quantitative analysis and reporting of aircraft inductions/completions at interservice depots by application of industrial performance overview metrics. This will also include assignment as the NAVAIR Maintenance Interservice Support Officer (MISO).

INDUSTRIAL ASSET MANAGEMENT (6.3.4/634000_) - Provides life cycle management of TEAM industrial assets including life cycle management of facilities and equipment including capacity measurement; management of new technology transition for process improvement and environmental compliance purposes; and industrial/process engineering resources required for industrial repair process improvements, environmental compliance, and workload standards management.

INDUSTRIAL CPP AND MILCON (6.3.4.1/634100_) - Responsible for life cycle management of capital equipment, facilities, and industrial capacity in relation to the TEAM's Industrial Strategy for the depots. This includes management of: budget preparation, submission, defense, and execution of the Capital Purchases Program; military construction program preparation and defense; and industrial capacity measurement, utilization, and execution program.

INDUSTRIAL TECHNOLOGY INSERTION (6.3.4.2/634200_) - Responsible for life cycle management of technology insertion and environmental compliance programs in relation to the TEAM's Industrial Strategy for the depots. This includes management of: technology insertion program to identify and prioritize technology needs and identify, submit and execute technology projects; environmental compliance program to exercise functional and technical oversight for the environmental compliance related programs; and representing AIR-6.0 on Navy and joint service environmental teams.

DEPOT MANAGEMENT SYSTEMS (6.3.5/635000_) - Provides maintenance of legacy systems technology and the introduction of new systems technology and applications to maintain a responsive, modern organic industrial base in accordance with TEAM industrial policy. This includes: support of current systems and directives; acquisition and

implementation of the Manufacturing Resource Planning (MRPII) program; development and implementation of the NAVAIR Depot Maintenance (DM) System across the NADEPs; and system evaluation and support required by the MRPII and NAVAIR DM System Programs.

INDUSTRIAL SYSTEMS (6.3.5.1/635100_) - Responsible for: development, maintenance, and execution of the AIR-6.0 IT master plan; development and execution of the depot IT budgets; coordination and facilitation of the Industrial Business Process Leadership Team; and sustainment and sunset planning of the depot legacy systems.

DEPOT MRPII SYSTEMS (6.3.5.2/635200_) - Responsible for implementing the MRP II system within the three NAVAIR depots including: planning and scheduling the events, budgeting resources, coordinating execution, managing risk, and monitoring performance to objectives to achieve successful MRP II implementation.

DEPOT MAINTENANCE SYSTEMS (6.3.5.3/635300_) - Responsible for development, implementation, and maintenance of the NAVAIR DM System within the three NAVAIR Depots. NAVAIR DM System is currently designated as an Acquisition Category (ACAT) 1AC program. Responsible for planning and scheduling the events, budgeting resources, coordinating execution, managing risk, and monitoring performance to objectives to implement and maintain NDMS.

INDUSTRIAL TEST AND EVALUATION SYSTEMS (6.3.5.4/635400_) - Responsible for guiding (through a systems engineering process) the technical planning, design, acquisition, and deployment of a family of interfaced and later interoperable, depot maintenance standard systems in the NAVAIR Industrial community. Also responsible for NAVAIR liaison within Navy, other Services and other Corporate Information Management (CIM) business areas for implementing a common/shared technical information system architecture.

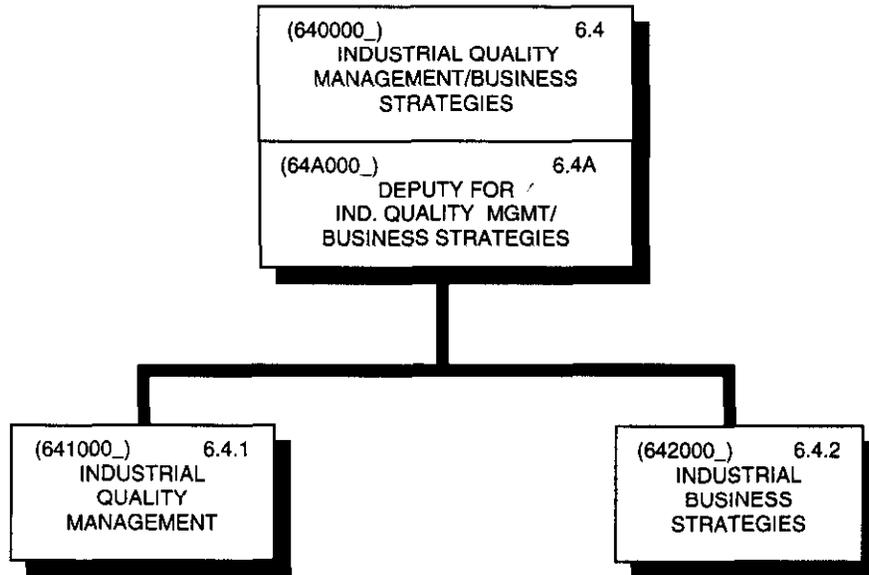
DEPOT PERFORMANCE & MAINTENANCE POLICY (6.3.6/636000_) - Collects and presents industrial performance for selected depot sites, and coordinates the review and revision of Naval Aviation Maintenance Program (NAMP) policies impacting depot maintenance operations. This

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includes coordinating and providing: the definitions and construction and maintenance of a management process for metrics essential to the effective and efficient corporate management of depot industrial activities; and, the representation to the NAMP working committee.

**INDUSTRIAL QUALITY MANAGEMENT/
BUSINESS STRATEGIES
6.4/640000_**



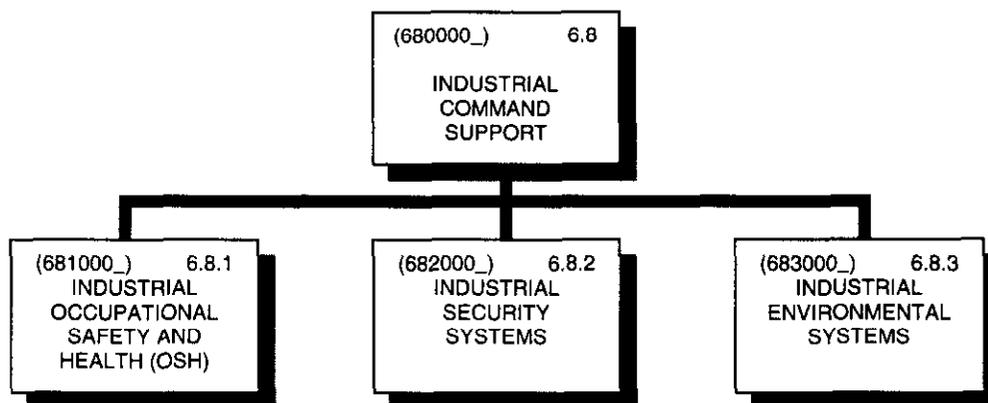
INDUSTRIAL QUALITY MANAGEMENT/BUSINESS STRATEGIES (6.4/640000_) - Maintains an integrated quality program across the entire NAVAIRSYSCOM TEAM, and provides technical support for developing industrial business strategies and the Industrial Strategic Plan (ISP).

DEPUTY FOR INDUSTRIAL QUALITY MANAGEMENT/BUSINESS STRATEGIES (6.4A/640000_) - Assists in managing and leading efforts required to maintain an integrated quality program across the entire NAVAIRSYSCOM TEAM, and provides technical support for developing industrial business strategies and the ISP.

INDUSTRIAL QUALITY MANAGEMENT (6.4.1/641000_) - Maintains an integrated quality program. Functions include customer liaison, stakeholder management, change management, internal/external communications, training, quality of work life, and marketing. Core functions include quality programs management and pre-production quality planning, all of which include continuous process improvement.

INDUSTRIAL BUSINESS STRATEGIES (6.4.2/642000_) - Provides industrial strategic planning support to the Depot Program Management Board and the Industrial Strategy Working Group. This technical support is accomplished by developing implementation strategies for the ISP long-range workload projections, partnerships/teaming policy and approval, and depot source of repair recommendations.

**INDUSTRIAL COMMAND SUPPORT
6.8/680000_**

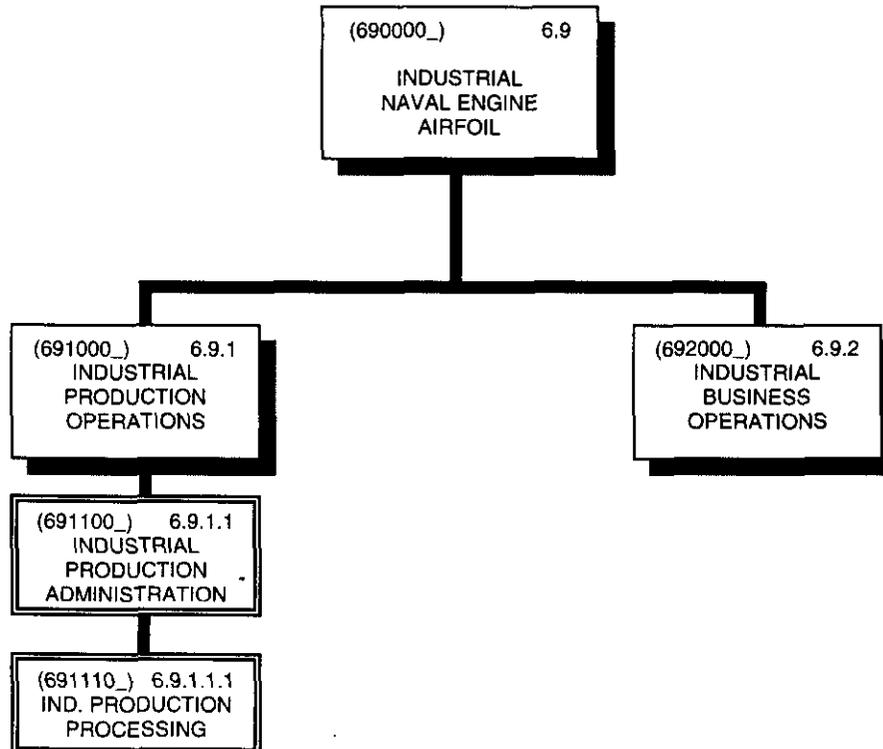


INDUSTRIAL COMMAND SUPPORT (6.8/680000_) - Manages and coordinates NAVAVNDEPOT safety, health, security, and environmental matters.

INDUSTRIAL OCCUPATIONAL SAFETY AND HEALTH (OSH) (6.8.1/681000_) - Maintains a safe work place for performance of industrial site operations. Activities include work place monitoring, OSH compliance reporting, ergonomics, coordination of medical surveillance/certification programs, and safety education and training services.

INDUSTRIAL SECURITY SYSTEMS (6.8.2/682000_) - Maintains the physical security of plant, equipment, and personnel located at the industrial site. Includes the protection of industrial assets and the local administration of personnel security clearances required for completion of the activity's mission.

INDUSTRIAL ENVIRONMENTAL SYSTEMS (6.8.3/683000_) - Manages the industrial site environmental program. This encompasses development and monitoring of site environmental management plans; interaction with federal, state, and local environmental regulatory agencies regarding site compliance issues; monitoring of work place practices to prevent/correct compliance problems; and environmental education and training for local site personnel.

**INDUSTRIAL NAVAL ENGINE AIRFOIL
6.9/690000_**

INDUSTRIAL NAVAL ENGINE AIRFOIL (6.9/690000_) - Provides long rang planning for future repair workload and the development of new repairs for gas turbine engine components. These repairs are directed at reducing the costs of gas turbine engine refurbishment and provide procurement alternatives to support logistic needs.

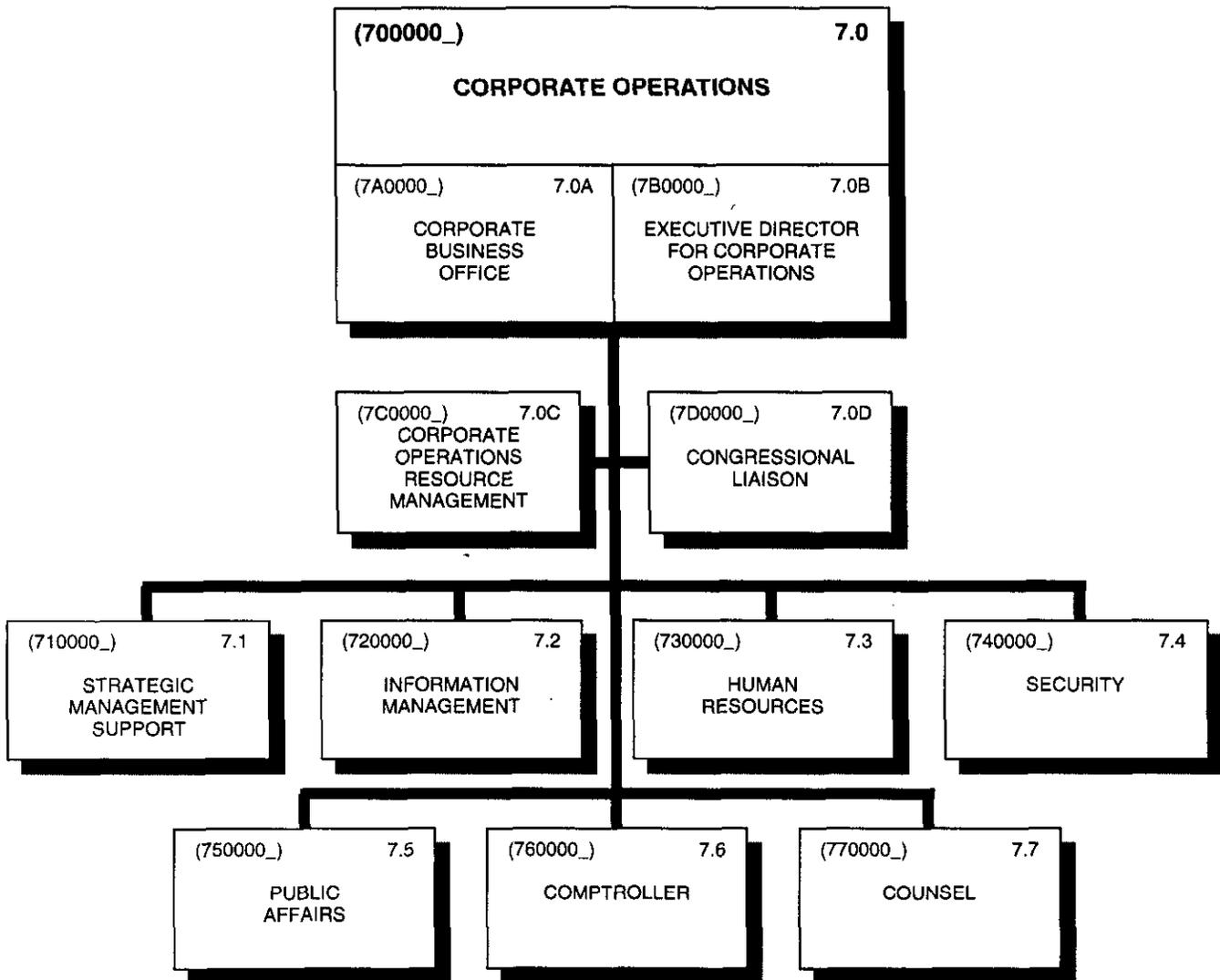
INDUSTRIAL PRODUCTION OPERATIONS (6.9.1/691000_) - Primary responsibilities are management of production and technical support function of Industrial Naval Engine Airfoil. These areas include production administration, production support engineering, repair development, department computer systems, and the precision measurement program.

INDUSTRIAL PRODUCTION ADMINISTRATION (6.9.1.1/691100_) - Provides administrative, production control, and tool room support of the production processing areas. Duties include prioritizing of workload, shop equipment and maintenance requirements and material acquisition.

INDUSTRIAL PRODUCTION PROCESSING (6.9.1.1.1/691110_) - Responsible for the daily execution of shop operations and personnel management. Primary capabilities include welding, blasting, peening, chemical stripping, hydrogen cleaning, machining, heat treating, brazing, contour blending and coatings such as High Velocity Oxygen Fuel (HVOF), atmospheric Plasma spray, aluminides by Allison Electrophoretic Process (AEP), and pack aluminizing processes.

INDUSTRIAL BUSINESS OPERATIONS (6.9.2/692000_) - Primary responsibilities are management of Business Operations for Industrial Naval Engine Airfoil. These include support in the areas of sales, marketing, customer relations, budget, accounting, pricing, methods and standards, quality assurance, and technical data management.

**CORPORATE OPERATIONS
7.0/700000_**



CORPORATE OPERATIONS (7.0/700000_) - Provides the resources required for successful support of the Naval Aviation Systems TEAM. Directly and indirectly supports the other competencies, IPTs, program TEAMS, Commanding Officers, site managers, and ETs by providing the following services: information management, human resources, strategic management, comptroller, legal counsel, public affairs, Congressional liaison, and security.

CORPORATE BUSINESS OFFICE (CBO) (7.0A/7A0000_) - The overall function is to assist senior leadership in balancing resources to efficiently and effectively meet customer/fleet requirements. The CBO is responsible for: understanding and assessing the TEAM-wide performance necessary to successfully meet business objectives; identifying issues to be brought forward to senior leadership; developing necessary corporate business practices; and providing essential information and analyses needed

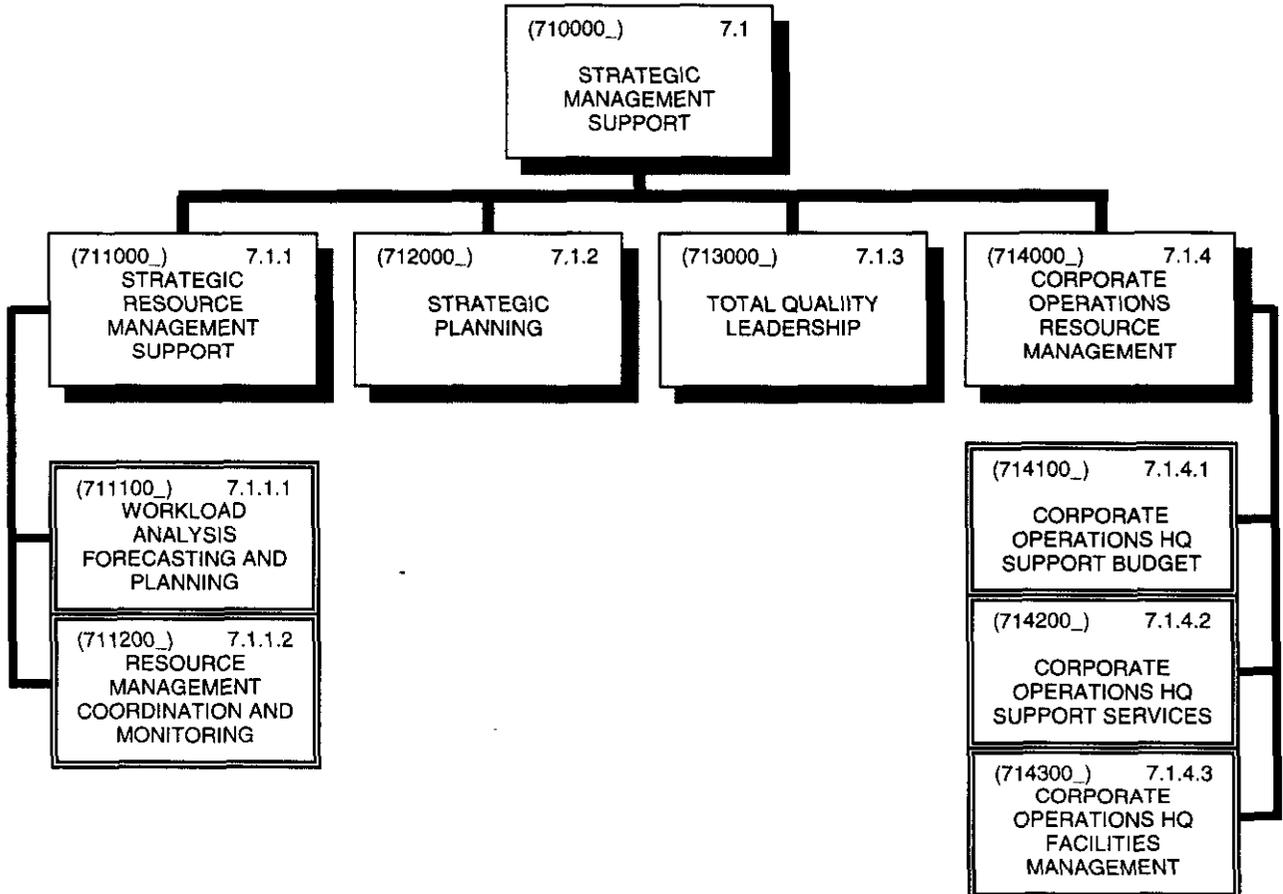
to support management decisions. Orchestrates the establishment of consistent business policies, processes, metrics, tools, and automated systems. Not intended to duplicate or replace existing responsibilities assigned to other TEAM members, but support the TEAM elements in carrying out their responsibilities. The TEAM is comprised of the Naval Air Systems Command (NAVAIRSYSCOM), Naval Aviation Warfare Centers (NAWC-AD/WD); Naval Aviation Depots, Naval Aviation Inventory Control Point (NAVICP), Program Executive Offices (PEOs) and Direct Reporting Program Manager (DRPM). The Executive Director for Corporate Operations, 7.0A, will head the CBO and will provide direction regarding policies, objectives, and results achieved. Personnel aligned to the CBO will be rotationally assigned to Headquarters, and for that period they will serve as members of the CBO Team.

EXECUTIVE DIRECTOR FOR CORPORATE OPERATIONS (7.0B/7B0000_)

CORPORATE OPERATIONS RESOURCE MANAGEMENT (7.0C/7C0000_) - Develops, coordinates, and provides a total resource management program for Corporate Operations. Performs financial and business related functions to include budget formulation and execution. Develops competency salary and manpower allocation. Develops and implements resource management policy and procedural guidance for position management and classification support, organizational design, recruitment, manpower resource analysis, commercial activities, resource support for DAWIA, training, and travel. Provides advice and guidance to competency managers on a variety of resource management issues.

CONGRESSIONAL LIAISON (7.0D/7D0000_) – Provides technical or other information concerning naval aviation matters to members of Congress, it's committees, and staff. Furnishes information which may form the basis for legislation to be considered by Congress. In addition, prepares documentation to announce the award of contracts valued at \$5 million or more to the appropriate members of Congress and the press.

**STRATEGIC MANAGEMENT SUPPORT
7.1/710000_**



STRATEGIC MANAGEMENT SUPPORT (7.1/700000_) - Provides the resources necessary to support development, planning, and execution of Workforce/Resource Requirements, Strategic Management, Business Planning, and Total Quality Leadership (TQL) including TQL training, consultation, and administration. Primary role is to provide support, analysis, and tools to executive TEAMS, designated operating TEAMS, competency leaders, and others in order to facilitate efficient use of strategic resources, develop and facilitate the continuation of TEAM strategies.

STRATEGIC RESOURCE MANAGEMENT SUPPORT (7.1.1/711000_) - Provides the resources required to provide senior level management with the information, analysis, and assessment of strategic resource requirements needed to carry out the stated mission of the TEAM. Strategic resources include people, facilities, equipment, and dollars. This is not a budget preparation function, rather it is an objective assessment of the stated need for the resources. This assessment takes into account the organization's estimate of anticipated workload, mission requirements,

and known constraints (e.g., manpower constraints, funding levels, etc.). Purpose is to provide senior level TEAM management with enough integrated information, across competency boundaries, to support fact-based decision making consistent with TEAM strategies.

WORKLOAD ANALYSIS FORECASTING AND PLANNING

(7.1.1.1/711100_) - Provides the resources to analyze, integrate, and coordinate organizational resources (including workload and manpower) requirements. Includes the processes to perform necessary data gathering, data consolidation, liaison, and analysis to provide senior decision-makers with a composite picture of the TEAM's resource requirements and resource availability. The processes will provide for the articulation of the justification, bases and assumptions upon which resource requirements are based. A key product of these processes will be an assessment of the forecasted state-of-the-resources across the organization, alternative approaches or courses of action to managing these resources, and a recommended alternative. The goal is to provide the decision-makers a tool to facilitate their decision-making. Elements include: workload/business forecasting analysis, formulating manpower budget submissions, workload management decision support processes, manpower onboard reporting, tracking and analysis of TEAM attrition and staffing levels; coordinating organizational investment planning, and coordination/interface with a standard workload and monitoring process/system.

RESOURCE MANAGEMENT COORDINATION AND MONITORING (7.1.1.2/711200_)

- Provides the resources to provide TEAM-wide processes to support coordinated resource management and decision making. Includes processes which provide: TEAM-wide organizational structure, policies & directives; consolidated organizational level resource management reports; analysis and assessment in support of resource management decision making; reimbursement management. Other processes include ad hoc analysis, inquiry and reporting capabilities, as well as consistent resource information access/delivery of reports. Responsibilities also include providing common (across all competencies) criteria for resource information content and management of organizational policy, including organizational directives, forms, structural changes and implementation. The CAO data base development, management, and maintenance are under the cognizance of this group.

STRATEGIC PLANNING (7.1.2/712000_) - Provides the resources necessary to act as a facilitator, catalyst, and consultant for the TEAM Strategic Management Process, including development of vision

statements, strategies, and goals; publish the TEAM Strategic Plan, Business & Operating Plans, and associated documents; development of strategic planning implementation guidance; provide assistance to TEAM to develop business planning policy, performance metrics, business process, improvement techniques; provide requirements for to TEAM to develop, maintain, and use databases for decision making; provide administrative research and analysis support.

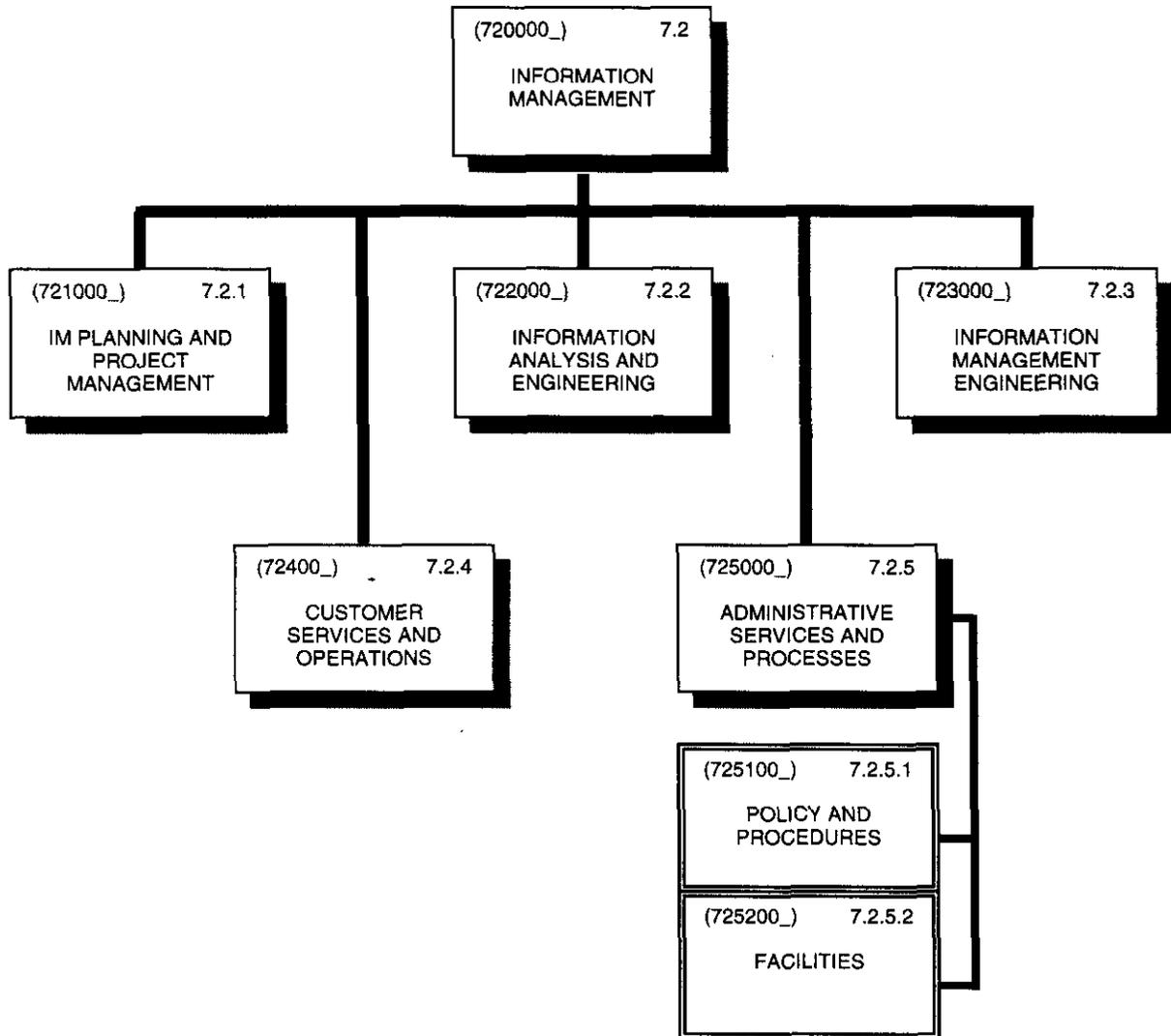
TOTAL QUALITY LEADERSHIP (7.1.3/713000_) - Fully responsible for the training requirements for introduction, monitoring, and measurement of TQL concepts, tools, and methodologies in all competency areas. The Total Quality Leadership element works with the planning and resource elements to provide the leadership, competencies, TEAMS, and employees with a full range of TQL expertise. Specifically, this element provides TEAM-wide and localized expertise that will make up the knowledge, skills, and abilities associated with TQL available for any internal customer (ESC, competency leader, program or action TEAM, or individual leader/employee). To achieve these ends, provides a singular focus for consulting, facilitation, training, and a full range of specialized tools and techniques. This element acts a consultant to the individual leaders, managers, and the ESC. It also serves as the facilitator to both program teams working on process improvements and ESC/strategic quality improvement oriented teams working quality improvements. Further, this element serves as the catalyst and advocate for quality. The TQL element provides a multi-disciplinary focus for measures, metrics, statistics, and more effective organizational performance measures. Specifics roles include: TQL expert, process improvers, consultants to senior leaders, change agents, facilitators to teams, trainers, measurers, statisticians, process/team resolution (intervention) agent, quality advocates, benchmarkers, and re-engineers.

CORPORATE OPERATIONS RESOURCE MANAGEMENT (HEADQUARTERS ONLY) (7.1.4/714000_) - Supports the Assistant Commander for Corporate Operations. Provides the resources to manage and coordinate all the resource management requirements for Corporate Operations. Includes the HQ Support Budget, Services, and Facilities Management.

CORPORATE OPERATIONS HQ SUPPORT BUDGET (7.1.4.1/714100_) - Includes the processes to prepare, submit, support, and defend, as well as execute, the support budget.

CORPORATE OPERATIONS HQ SUPPORT SERVICES (7.1.4.2/714200_) - Includes major claimant reporting responsibilities and HQ organic capability to provide supplies, and services.

CORPORATE OPERATIONS HQ FACILITIES MANAGEMENT (7.1.4.3/714300_) - Oversees and manages HQ facilities and space requirements under corporate direction and within funding constraints.

**INFORMATION MANAGEMENT
7.2/720000_**

INFORMATION MANAGEMENT (7.2/720000_) - Provides the resources necessary to support development, planning execution, monitoring, and life cycle support of IM programs and information-related activities within the TEAM.

IM PLANNING AND PROJECT MANAGEMENT (7.2.1/721000_) - Includes the establishment and promulgation of project management processes, policies, and requirements and certification of project managers as eligible to receive project management assignments. Develops and maintains long-range IM plan strategies and objectives and corresponding short-range project plans that support them. Provides standard Life Cycle Management discipline for managing and actively assisting the TEAM in obtaining

approval for all information projects. Offers policy and standards guidance to project managers supporting IPTs, ETs, and EDTs. Provides acquisition strategies and documentation support for IM projects/services.

INFORMATION ANALYSIS AND ENGINEERING (7.2.2/722000_) - Provides support for identification, modeling and improvement of IM related processes. For information engineering, supports the identification, analysis, modeling, development, and documentation of IM business processes. For data management, provides data administration program to ensure data quality, integrity, and consistency. For Functional Economic Analysis, facilitates and supports analysis of functional process needs, problems, proposed solutions, alternatives, benefits, and costs. For Joint Continuous Acquisition and Life Cycle Support (JCALS), implements computer technology and standards in support of life cycle processes.

INFORMATION MANAGEMENT ENGINEERING (7.2.3/723000_) - Includes engineering support for planning, development, and implementation of all IM projects and activities within the TEAM. For areas of IM including software, hardware, database, and data, maintains TEAM architectural standards applicable to IM infrastructure and operations consistent with the Technical Architecture Framework for Information Management (TAFIM); disseminates IM metrics that ensure control and optimal implementation; and implements MIL-STD configuration management to control TEAM IM systems. Addressing Information Systems (IS) development provides requirements analysis, application systems analysis, application selection, application design, applications development, integration and testing, and storage and retrieval. For IT platform engineering, provides the IT platform design and testing for telephony, data transmission, video, and multimedia.

CUSTOMER SERVICES AND OPERATIONS (7.2.4/724000_) - Provides services in support of two basic IM categories -- IM operated resources and User Operated resources. For IM operated information resources, specific services include support of facility operations (e.g., mainframes), system operations, Wide Area Network (WAN) operations, local area network (LAN) operations, VTC operations, CCTV operations, telephone operations, database systems support, and security. For user operated information resources, services include user training, Help Desk, standard application support, user system operations, user database support, hardware maintenance, software maintenance, multimedia support, graphics support, and user IM security.

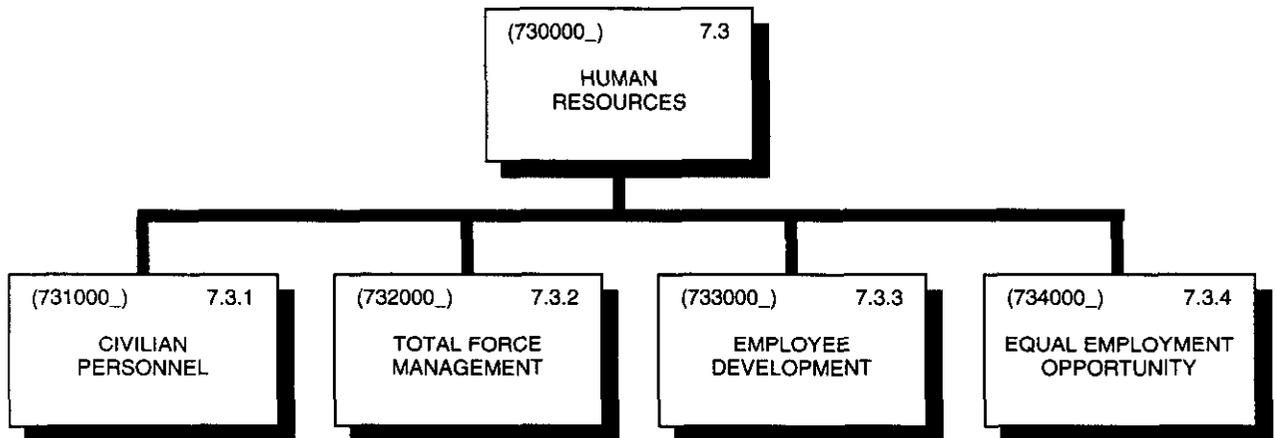
ADMINISTRATIVE SERVICES AND PROCESSES (7.2.5/725000_) - Provides corporate administrative management services and processes, to include correspondence management, directives management, library sciences (including electronic and hard copy books, periodicals, maintenance manuals, and technical reports), mail/messages/secret files,

office management (includes processes for secretaries, office automation clerks, etc.), printing and reproduction services, travel orders, and property management.

POLICY AND PROCEDURES (7.2.5.1/725100_) - Provides administrative management services and processes, to include directives management (instructions, forms, records, reports), office management (includes processes for secretaries, office automation clerks and higher level management etc.,) printing and reproduction services, property management, mail management, travel card major claimant management, simplified acquisition (to include bulk purchase, acquisitions for administrative and like consumable products for office support in excess of \$2,500), equipment management (as it relates to office application i.e., copiers, fax machines, typewriter, shredders, etc), communication products (as with cellular phones or pager notification systems), corporate oversight for International Merchant Purchasing Account Card (I.M.P.A.C) programs, and lease management .

FACILITIES (7.2.5.2/725200_) - Responsible for overseeing the maintenance and repair of the command's buildings and providing facilities support to include office redesigns, furniture renovations, provisioning of bulk supplies, and maintenance of motor vehicles.

HUMAN RESOURCES
7.3/730000_



HUMAN RESOURCES (7.3/730000_) - Includes the resources required to acquire, develop, and retain a skilled and flexible military and civilian work force for the Naval Aviation Systems TEAM. In part, this includes serving as principal advisor to the Commander on policy and federal regulations governing personnel and Equal Employment Opportunity; providing policy guidance, advice, and assistance on personnel matters to line management; developing and executing the human resources management strategic plans, goals, and objectives; interfacing on human resources issues with Navy, Office of Personnel Management, other government and private organizations.

CIVILIAN PERSONNEL (7.3.1/731000_) - The resources required to define, acquire, nurture, and retain a skilled, flexible work force for the Naval Aviation Systems TEAM. In addition to those identified in Human Resources, includes providing Senior Executive Service, Civil Service Reform Act, Federal Employees Pay Comparability Act of 1990, and National Performance Review implementation and management services; administering the Civilian Employee Assistance Program; the Drug-Free Workplace Program; and the Health and Wellness Program; providing developmental, technical, and consultative services for recruitment, employment, classification, compensation, employee benefits, labor relations, and employee relations.

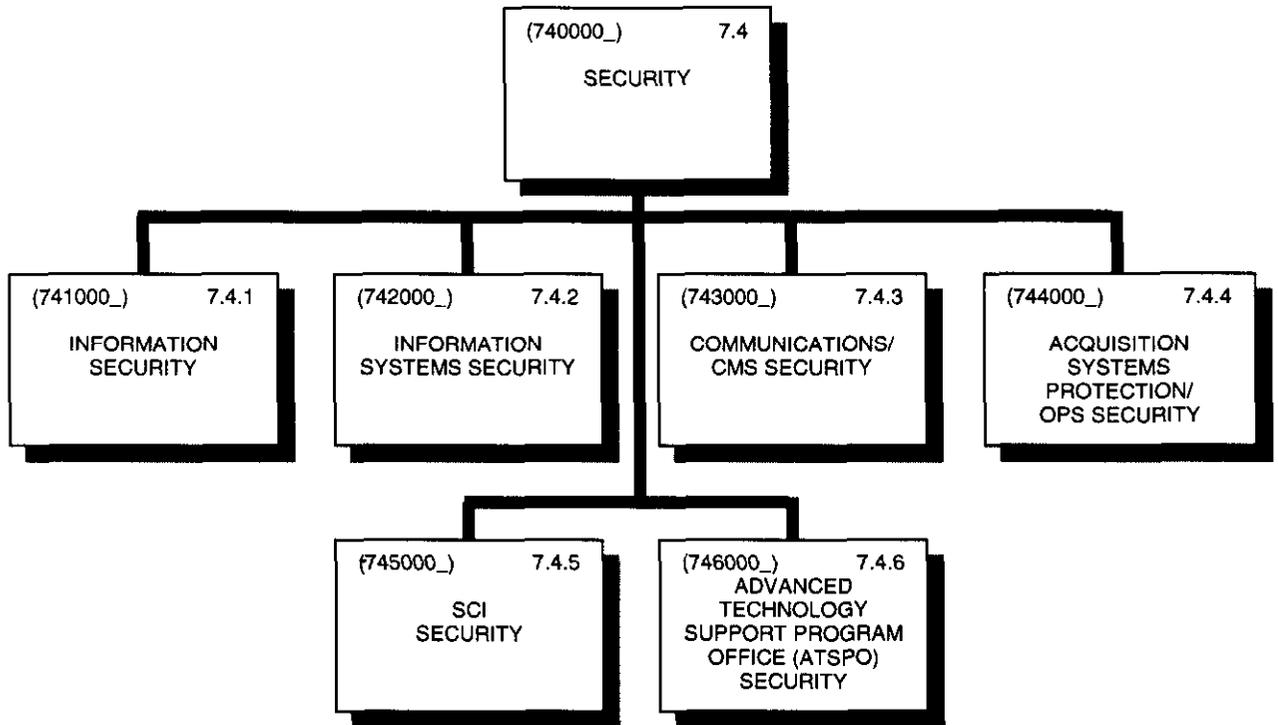
TOTAL FORCE MANAGEMENT (7.3.2/732000_) - Provides the resources required to define, manage, and execute the Total Force Management programs (includes military billet management and manning coordination) facilitating and assisting in position management, analysis of organizational design and redesign, member of corporate manpower management team assisting in on-board reporting and demographic information, Defense Civilian Personnel Data System (DCPDS), and manpower analysis. Responsible for program management and oversight

of the Family Services Center (FSC) program; program management and oversight of the Counseling and Assistance Center (CAAC) program. Shore Station level activity in this sub-competency includes military manpower analysis; liaison with the Enlisted Personnel Management Activity Center (EPMAC) and the Bureau of Personnel (BUPERS) Manpower Control Authority; coordination of manpower authorization changes; executive of, and day-to-day operation of the FSC program; execution of, and day-to-day operation of the Command Managed Equal Opportunity (CMEO) program; executive of, and day-to-day operation of CAACs; and, any other duties associated with the administration of assigned military personnel.

EMPLOYEE DEVELOPMENT (7.3.3/733000_) - Provides the resources required to assist the competencies in the identification, training, and development needs of the work force. Provides full spectrum life cycle developmental and training mechanics for the workforce from orientation through retirement. Includes training resource management, career counseling, development program management, training course development, organizational development, development of a Corporate University and training facility, and instructor support. Services the other competencies to develop the skills of the work force. Maintains a flexible and adaptable process for continuous education, development, and training.

EQUAL EMPLOYMENT OPPORTUNITY (7.3.4/734000_) - Provides the resources required to support managers in improving their EEO posture and provides program management and oversight of the Equal Employment Opportunity Programs. Provides coordination of the corporate Affirmative Employment Program (AEP), discrimination complaints program, and the Prevention of Sexual Harassment (POSH) program.

SECURITY
7.4/740000_



SECURITY (7.4/740000_) - Responsible for all aspects of the Information Security (INFOSEC) program to ensure proper classification management, physical measures for protecting classified information, security education and training, Personnel Security (PERSEC), Information Systems Security (INFOSYSSEC), Communications Security (COMSEC), Acquisition Systems Protection (ASP) Security, Operations Security (OPSEC) programs, Sensitive Compartmented Information (SCI) security, and Special Access Programs (SAP) security.

INFORMATION SECURITY (7.4.1/741000_) - Responsible/accountable for implementation and management of the INFOSEC program to ensure proper classification management, physical measures for protecting classified information, security education and training, industrial security, and personnel security. Also includes the following functions: responsible/accountable for implementation and management of the INFOSEC program to ensure proper classification management, physical measures for protecting classified information, ensure compliance with industrial security program requirements for classified DoD contracts, security education and training; responsible/accountable for

implementation and management of the PERSEC program to ensure that personnel with access to classified information are properly investigated and have appropriate security clearances.

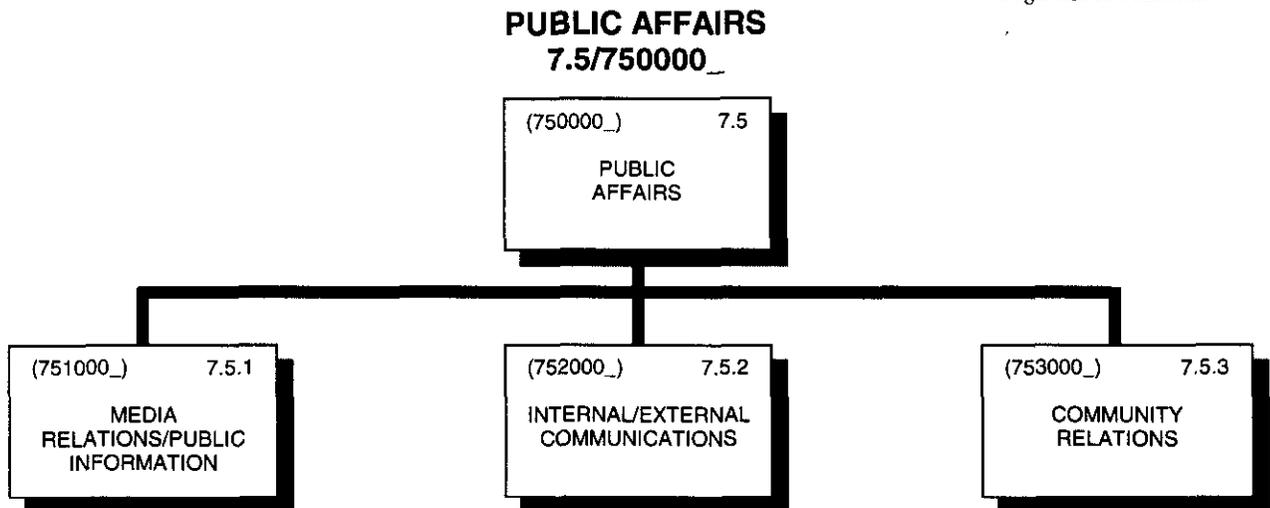
INFORMATION SYSTEMS SECURITY (7.4.2/742000_) - Responsible/accountable for implementation and management of the INFOSYSSEC program to ensure adequate security for Automatic Data Processing (ADP) systems including software and hardware security features as well as administrative, physical and personnel security controls for providing an adequate degree of security for ADP systems including software, hardware, and network security features. Also includes the following functions: responsible for implementation and management of the ADP security program to ensure adequate security for ADP systems including software and hardware security features by adequately protecting automated information systems and computer resources against accidental or intentional destruction, unauthorized disclosure, denial of service, and unauthorized modification.

COMMUNICATIONS/CMS SECURITY (7.4.3/743000_) - Responsible/accountable for implementation and management of the Communications Security program, ensuring adequate security for information during transmission and accountability and control of cryptographic material. Also include the following functions: responsible/accountable for implementation and management of the CMS program for ensuring accountability and control of cryptographic material; responsible/ accountable for implementation and management of the SCA program for ensuring accountability and control of Secure Telephone (STU) cryptographic material; responsible/accountable for implementation and management of the transmission security program for ensuring communications circuits are adequately protected to avoid denial of service, prevent compromises or modification of data/information.

ACQUISITION SYSTEMS PROTECTION/OPERATIONS SECURITY (7.4.4/744000_) - Responsible/accountable for implementation and management of the Acquisition Systems Protection (ASP) and Operations Security programs for ensuring adequate security for weapons systems anywhere in the acquisition process. Also includes the following functions: responsible/accountable for implementation and management of the OPSEC program for ensuring essential secrecy and adequate security for friendly operations, capabilities and intentions; responsible/accountable for implementation and management of the ASP program for ensuring adequate security for weapons systems anywhere in the acquisition process; responsible/accountable for implementation and management of the treaties security program for ensuring adequate security for classified/sensitive information during treaty inspections.

SCI SECURITY (7.4.5/745000_) - Responsible/accountable for implementation and management of the SCI program, ensuring adequate security for SCI.

ADVANCED TECHNOLOGY SUPPORT PROGRAM OFFICE (ATSPO) SECURITY (7.4.6/746000_) - Responsible/accountable for implementation and management of the SAP security programs, ensuring adequate security for SAP program information.



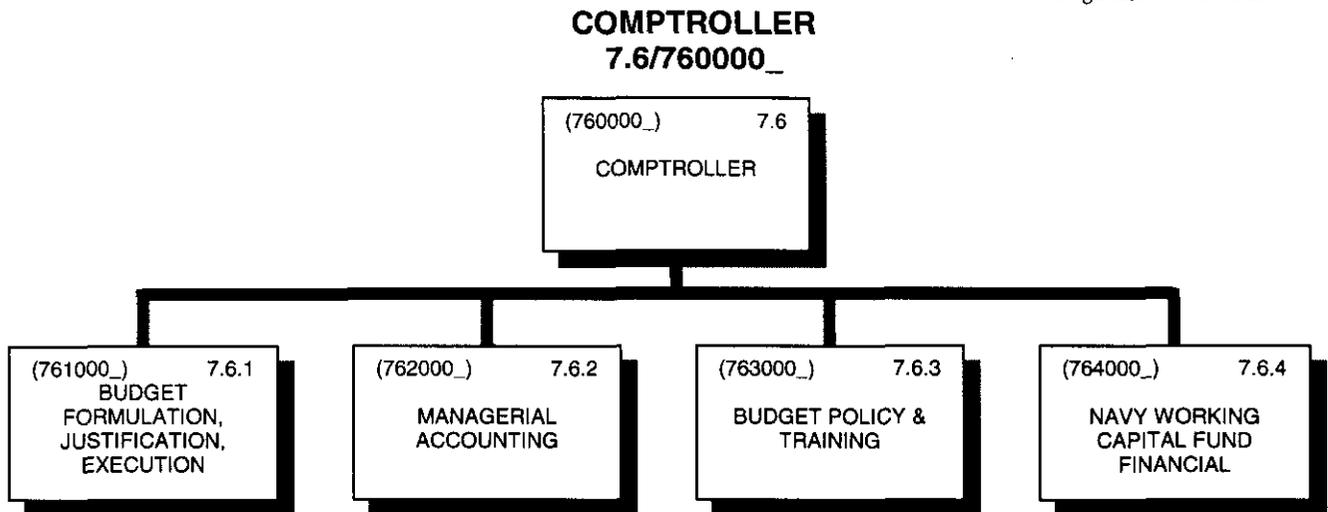
PUBLIC AFFAIRS (7.5/740000_) - Provides public affairs and environmental public involvement support to internal and external customers including Program Managers, Integrated Program Teams, Shore Station Managers, other Competency Leaders, and the rest of the Naval Aviation Systems TEAM. Support includes public information/media relations' services, internal/external corporate communications products, and community relations' services. Provides timely and accurate information so that various publics may assess and understand the full spectrum of naval aviation--its impact on national security, defense strategy, and the TEAMS' role as a responsible steward of public resources.

MEDIA RELATIONS/PUBLIC INFORMATION (7.5.1/751000_) - Responsible for the collection, analysis, and dissemination of unclassified, official, and otherwise releasable information to the public or various media (print and electronic) at the local, regional, and/or national levels. Public Information also involves feedback from the public, such as monitoring the media coverage of news pertaining to the command as well as Navy and defense matters. Contained within the competency is the process of review and clearance of contractor submitted materials which are to be released by the contractor into the public domain.

INTERNAL/EXTERNAL COMMUNICATIONS (7.5.2/752000_) - Contains all public affairs efforts to communicate with the internal work force as well as numerous specialized external audiences. There are two level 4 sub-competencies. The internal information program uses a variety of tools, e.g., base newspapers, electronic mail (e-mail), video news programs, and/or other communication tools to disseminate information to the work force. The process requires establishing, maintaining, and employing two-way communication to link leadership and the people of the organization. The external information program proactively provides "good news" stories about the corporation to a variety of external audiences; e.g., news media, trade press, the general public, industry partners, and professional

organizations. Local stories from each site will be expanded and combined with similar stories from other NAVAIR activities to present a corporate focus on topics with significant human, environmental or financial impact.

COMMUNITY RELATIONS (7.5.3/753000_) - The spectrum of programs and activities that develop and build local community trust, understanding, and support for the Naval Aviation Systems TEAM. There are two level 4 sub-competencies. Community programs place the TEAMS' people, accomplishments, and hardware in direct contact with the public to promote positive local relations. Two-way communications strategies ensure a participative relationship. Examples of other programs, which are integral elements of the community relations' competency, include visits/tours, BRAC briefings, speakers' bureaus, public meetings, special events, exhibits, command presentations, and public inquiries. Environmental Public Involvement is a very specialized community relations program which draws from all public affairs competencies, but resides within this level 3 organization, as the increased legislative and public concern in this area makes direct interface with local communities essential.



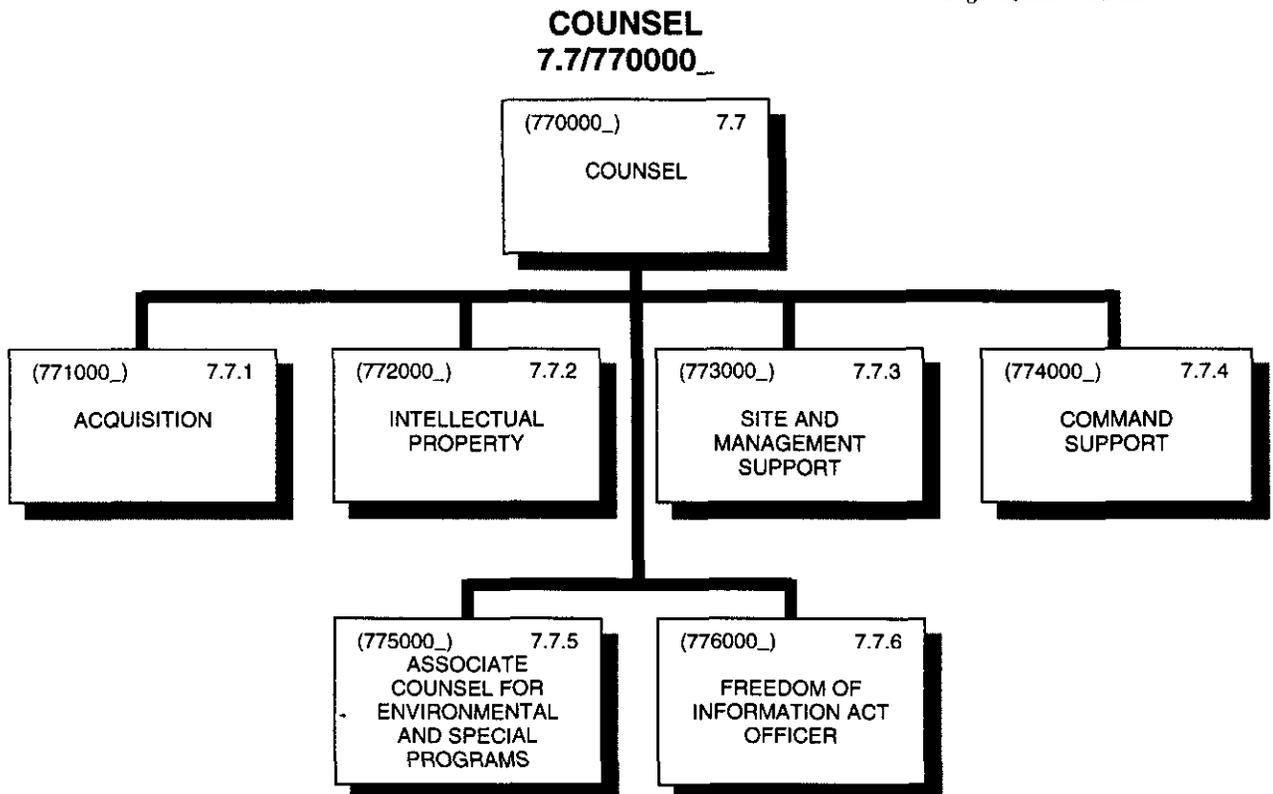
COMPTROLLER (7.6/760000_) - Reports directly to the Commander, Naval Air Systems Command (COMNAVAIR) and serves as senior financial advisors to COMNAVAIR and the Program Executive Officers; maintains the integrity of financial operations and accounts as required under the Chief Financial Officers' Act; provides financial advice, training, and services to headquarters staff competency organization elements, enterprises, Shore Station Managers/Commanding Officers, and PMAs. Responsible for: command-wide budget; managerial accounting and resource execution policies planning, justification of appropriation, manpower, DBOF and other resource budgets, and provides resource reports and analysis. The Comptroller organization (7.6 level 2 competency) is aligned to level 1 Corporate Operations for administrative support purposes.

BUDGET FORMULATION, JUSTIFICATION, EXECUTION (7.6.1/761000_) - Senior budget advisor to the Comptroller and the TEAM; provides financial advice and services to the entire TEAM organization. Responsible for: command-wide budget; budget policy implementation; planning, programming, and budget system process oversight; POM submission, preparation, submission, and justification of appropriation, manpower and other resource budgets, and providing resource reports and analysis.

MANAGERIAL ACCOUNTING (7.6.2/762000_) - Senior financial systems advisor to the Comptroller and the TEAM; maintains the integrity of financial operations and accounts under the Chief Financial Officers' Act; provides financial advice, training, and services to the entire TEAM organization. Responsible for management accounting, DBOF accounting guidance/policies, and resource execution policy implementation; accounting system requirements; resource reports and DBOF budget preparation, submission, and justification.

BUDGET POLICY AND TRAINING (7.6.3/763000_) - Senior budget policy advisor to the Comptroller and the TEAM; interprets and promulgates programming and budget policy for the TEAM; develops and maintains training courses for competency members; coordinates the presentation and development of financial management courses for personnel both inside and outside the Comptroller competency; administers competency personnel training and skill development; coordinates the Centralized Financial Management Trainee Program (CFMTP) for the TEAM.

NAVY WORKING CAPITAL FUND FINANCIAL (7.6.4/764000_) - Responsible for planning, developing, implementing, and evaluating NAVAIR financial directives, instructions, and procedures relative to Navy Working Capital Fund (NWCF). These functions are performed for NAVAIRHQ and field activities. Responsible for monitoring/refining activity NWCF accounting systems and procedures; preparing, coordinating, and defending the A-11 budget; developing requirements for NWCF activities quarterly financial statements; and performing analytical studies of financial data.



COUNSEL (7.7/770000_) - Reports directly to the Commander, Naval Air Systems Command (COMNAVAIR) and serves as senior legal advisor to COMNAVAIR and the Program Executive Officers. Responsible for providing legal advice and services to the Naval Aviation Systems TEAM and designated personnel as required. Counsel (7.7 level 2 competency) is aligned to level 1 Corporate Operations for administrative support purposes.

ACQUISITION (7.7.1/771000_) - Legal services and representation on Defense Acquisition Management and Government Contracting Law.

INTELLECTUAL PROPERTY (7.7.2/772000_) - Legal services and representation on intellectual property law.

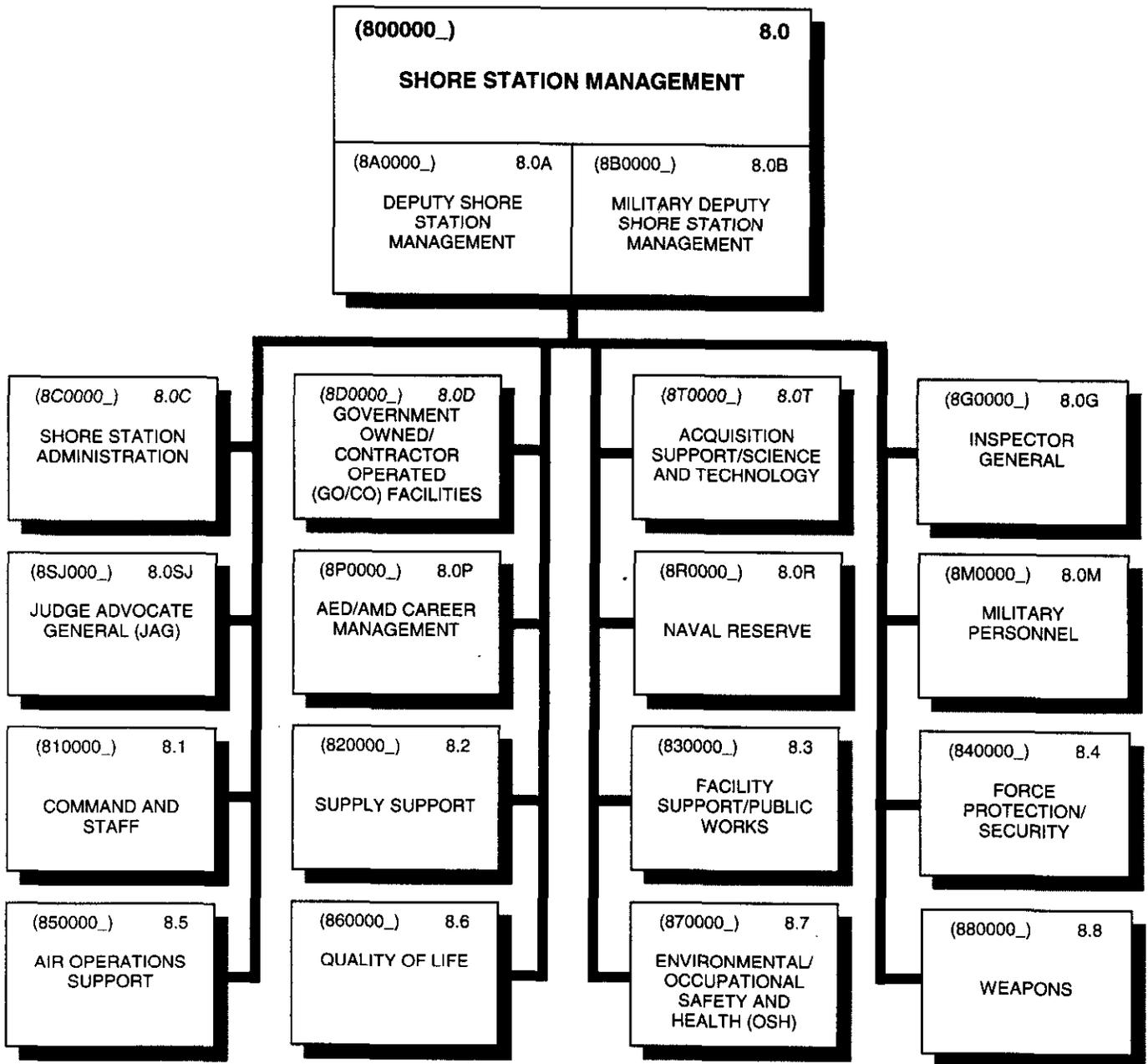
SITE AND MANAGEMENT SUPPORT (7.7.3/773000_) - Legal advice and services to sites, and management support, on related matters.

COMMAND SUPPORT (7.7.4/774000_) - Legal services and representation on civilian personnel law, EEO and labor law; litigation; standards of conduct; environmental matters; FOIA; privacy act; bankruptcy and certain other administrative actions.

ASSOCIATE COUNSEL FOR ENVIRONMENTAL AND SPECIAL PROGRAMS (7.7.5/775000_) - Legal services and representation on special programs including, but not limited to, environmental, BRAC, and Naval Air Warfare Center related matters.

FREEDOM OF INFORMATION ACT OFFICER (7.7.6/776000_) - Freedom of Information Act requests.

**SHORE STATION MANAGEMENT
8.0/800000_**



SHORE STATION MANAGEMENT (8.0/800000_) - Responsible for the overall leadership and management of personnel, processes, skills, and facilities required for successful support of NAVAIR shore activities, including on-site TEAM organizations and non-TEAM tenants. These include facilities management, environmental program management, military quality of life programs, physical security and public safety, and occupational safety and health. Aligned under this Competency are Inspector General, Naval Aviation Safety, and the Judge Advocate General functions.

DEPUTY SHORE STATION MANAGEMENT (8.0A/8A0000_) – Assists Competency Commander in competency planning/implementation, formulation of competency policy and guidance, competency work processes, and training program requirements.

MILITARY DEPUTY SHORE STATION MANAGEMENT (8.0B/8B0000_) – Director Shore Facilities, Environment, Safety and Quality of Life. Acts as primary point of contact for all NAVAIR shore station installation management, including facilities' management, Naval War Industrial Reserve Plant (GO/CO) Facilities, Environmental Safety and Health, Quality of Life, and Acquisition support

SHORE STATION ADMINISTRATION (8.0C/8C0000_) – Develops, coordinates, and provides an administrative management program and related resource management program for the Shore Station Management Competency. Provides advice and guidance to competency managers on a variety of management and/or administrative subjects. Includes implementing resource management policy and procedural guidance, position management, and resource management for training, travel, supplies, and contract administrative support services. Performs competency specific resource (manpower and function) allocation and workload management functions, and personnel issues.

GOVERNMENT OWNED/CONTRACTOR OPERATED (GO/CO) FACILITIES (8.0D/8D0000_) – Responsible for Program Management of the Naval War Industrial Reserve Plant Facilities. Coordinates all aspects of NAVAIR's Government Owned/Contractor Operated (GO/CO) facilities including resource requirements, environmental compliance, and divestiture.

ACQUISITION SUPPORT/SCIENCE & TECHNOLOGY (8.0T/8T0000_) – Serves as the competency representative to NAVAIR's science and technology program. Provides direct acquisition support to Acquisition/Program Executive Officers, and Program Managers and coordinates and supports the transition of new technology solutions in the field of environmental pollution prevention.

INSPECTOR GENERAL (8.0G/8G0000_) - Provides independent, objective assessment of the command's military readiness and compliance with regulations; provides an objective assessment of systemic processes; maintains liaison with outside auditors, investigators, and inspectors; provides the command the ability to eliminate fraud, waste and abuse, and provides the ability to investigate fraud, waste and abuse; ensures compliance with management controls mandate.

JUDGE ADVOCATE GENERAL (JAG) (8.0SJ/8SJ000_) - Responsible for the coordination of investigations concerning misconduct, accidents and injuries; administration of the Privacy Act; providing legal advice and opinions concerning military personnel, discipline, justice, claims, ethics/standards of conduct; conducting legal review of investigations, trials, NJP appeals, and instructions.

AED/AMD CAREER MANAGEMENT (8.0P/8P0000_) - Responsible for career management for AED/AMD/LDO MP professionals.

NAVAL RESERVE (8.0R/8R0000_) - Responsible for management of the Naval Reserve Air Systems Program.

MILITARY PERSONNEL (8.0M/8M0000_) - Provides policy oversight for military personnel issues for NAVAIR.

COMMAND AND STAFF (8.1/810000_) – Provides Command staff, administrative, clerical, and resource management support services. The headquarters component additionally includes the NAVAIR Claimant Commercial Activity Studies coordination. Responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.

SUPPLY SUPPORT (8.2/820000_) – Provides supply operation support including organizational and intermediate maintenance efforts and is responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.

FACILITY SUPPORT/PUBLIC WORKS (8.3/830000_) - Provides management, supervision, expert/technical advice, and assistance in the areas of facilities planning, design, construction, and engineering support as they relate to technical programs/projects and associated facility and other infrastructure requirements. Expertise is also provided on environmental matters, constraints, and laws as they may affect the accomplishment of the programs/projects.

FORCE PROTECTION/SECURITY (8.4/840000_) – Administers the overall security program and is responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization. Areas of involvement include Physical Security programs, Law Enforcement, and Investigations, along with vehicle and weapons registration and visitor control.

AIR OPERATIONS SUPPORT (8.5/850000_) - Operates the airfield and seadrome, including air traffic control services, Range Support, Crash and Rescue, and is responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.

QUALITY OF LIFE (8.6/860000_) – Responsible for the management of numerous community support programs including Morale Welfare & Recreation programs, Bachelor Quarters and Galley, Family Housing and Services, Child Development and MILPERS services. Responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.

ENVIRONMENTAL/OSH (8.7/870000_) - Responsible for environmental management and planning, compliance, conservation, and pollution prevention. Additionally responsible for implementation of a total Safety Program, non-aviation accident prevention, accident tracking and monitoring, radiation safety/permits, contract support and explosives safety, industrial health and safety, hazardous material safety and monitoring, facility safety, and traffic safety programs. Responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.

WEAPONS (8.8/880000_) - Provides ordnance/weapons services support to the Technical mission (Customers) including; weapons build-up, inventory, inventory management, receipt, assembly/disassembly storage, issue, and removal of ordnance and weapons. It also provides mandated training, inspection, records, and mishap investigations. Responsible for process improvement, training, and all other functions necessary for the support, maintenance, and development of this level 2 organization.