

Advanced Planning Brief to Industry

Aviation Training Systems PMA205

April 10, 2001



Captain Rory Fisher, USN

Welcome To Our Partnership In Training

Operational Readiness Begins Here

MISSION STATEMENT

“The Aviation Training Systems Program Office satisfies Naval Aviation training requirements by providing the operational forces and shore establishments with fully developed, reliable, supportable, cost efficient and effective training systems.”

PMA 205 RESPONSIBILITY

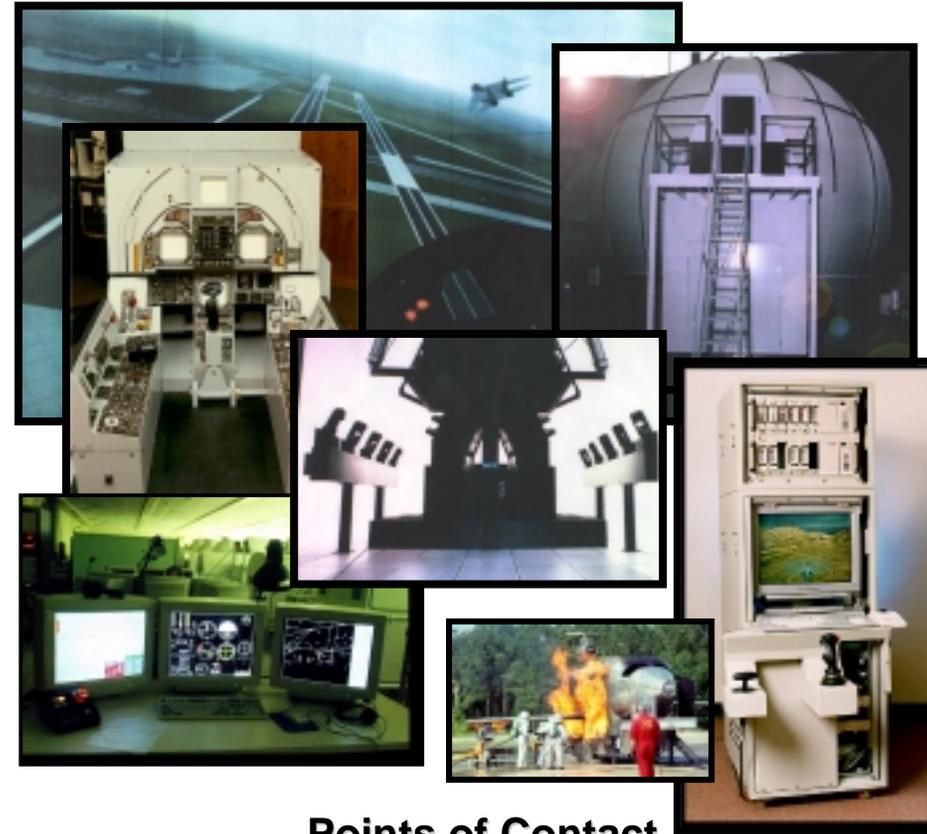
"PMA205's empowered Integrated Program Teams manage Naval Aviation Training Systems from concept to disposal. This task is accomplished by providing program and competency leadership in all matters pertaining to the development of effective, maintainable, supportable, and cost-effective training systems that meet the needs of clients and customers."

PROGRAM OBJECTIVES

- Fleet Readiness
- Modernization
- Affordability

SCOPE OF ACTIVITY

- Management of Naval Aviation Training Systems from Concept to Disposal
- Product/Support of Training Systems for all Aviation Weapon Systems
- Product Procurement/Support of General/Common Training Systems not associated with specific platforms



Points of Contact

- Program Manager- Captain Rory Fisher, USN 301-757-6944
- Deputy Program Manager- Pat Wentt 301-757-6938
- Training Systems Integration Support- Captain (Sel) John Harrington, USN - 301-757-6934
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- NAMTRAGRU Liaison- CDR (Sel) Robyn Barnes, USN 301-757-8121
- OPNAV N889/NAWCTSD Liaison- Suresh Kori (703) 604-6033 x2257
- DPM(TS) for Tactical Aircraft Programs- Bill Hechmer 301-757-6939
- DPM(TS) for ASW/Assault & Special Missions Programs- CDR Kevin Wilhelm, USN 301-757-6942
- DPM(TS) for General Aviation Systems & Weapons Programs- Ken McIlhenny 301-757- 6936
- DPM(TS) for JSF/ R&D Programs- CDR Kevin Wilhelm, USN 301-757-6942
- DPM(TS) for Aviation Training Systems, Orlando Detachment- Rob Matthews (407) 381-8987
- Business Financial Manager- LCDR Dave Pickering, SC USN 301-757-8081

<http://pma205.navair.navy.mil>

Navy Training Makes Fleet Performance

PMA205

AVIATION TRAINING SYSTEMS

- Average Annual **budget**-\$150-200M (APN-1,3,5,6,7, R&D, O&M,N)
- Responsible for **Acquisition and life cycle management of Navy and Marine Aviation Training Systems including flight simulators, maintenance training devices, electronic classrooms, courseware.**
- Approximately **80 personnel**, half military and half civilian; principal field activity is NAWCTSD in Orlando, Fl. Have both program and competency responsibilities.
- Over **100 programs** with over 400 different efforts; 3 ACAT IV programs (CBT/ADL, Marine Corps Aviation Simulator Master plan, Air Combat Training Continuum). Also have TOPSCENE Mission Rehearsal and JSF training programs
- Interfaces: NAWCTSD, OPNAV N889 Sponsor, USMC, CNET, NAMTRA, support all platform and weapons PMAs, all Aviation A and C Schools, CNATRA. Interface with industry, academia and all services.

PMA/NAVAIR
WEAPON SYSTEMS & PRODUCT PMAs

OTHER CUSTOMERS
CNET/CNAVRES/USMC/BUMED/FMS

Naval Aviation
Training Strategic
Advisory Group
N78/N789

Training Systems

Training Equipment/Courses

Platform PMAs

PMA205
AVIATION TRAINING SYSTEMS

PCO
Legal
Chief Engineer
Chief Logistician

NAVAIR

TSD

Training Systems
Integration Support

DPM(TS)
Tactical
Aircraft
Programs

DPM(TS)
ASW/Assault &
Special
Missions
Programs

DPM(TS)
Aviation
Training
Systems
Orlando Det

DPM(TS)
JSF/R&D
Programs

DPM(TS)
General Aviation
Systems &
Weapons Programs

PMA205 Supervisory Responsibility

PMA205 Management
Responsibility

Platform Product Line IPTs / PMA205 Product Line IPTs

Platform PMA Management
Responsibility

- AIR-2.5
- NAWCWD
- NAWCAD
- NAMTRAGRU
- NUWC
- Etc.

Naval Aviation
R&D/Engineering/Logistics
Support
NAWCTSD
Non-Naval Aviation Support
Other Services/Gov't Agencies

RESEARCH/MODELING &
SIMULATION ACTIVITIES

- DARPA/ONR
- TRAINING R&D LABS
- JSIMS
- AFAMS
- STRICOM

PMA2052M
USMC Liaison
(LTCOL Frank McCallister, USMC)

PMA2053L
NAMTG Liaison
(CDR (Sel) Robyn Barnes)

PMA205
Program Manager
(Captain Rory H. Fisher)
(Captain Larry Howard (Prospective))

PMA205TL
N889/TSD Liaison
(Suresh Kori)

PMA205A
Deputy Program Manager
(Patrick Wentt)

PMA205B
Training Systems
Integration Support
(Captain (Sel) John Harrington)

APM(L)
(George Cherry, TSD)

APM(SE)
(Maynard Zettler, TSD)

- Admin Team Lead - Donna Hansen, BA
- Secretary - Vacant, BA1
- Military/Admin Support - AZC Nielsa Jackson, BA2

- BFM - LCDR Dave Pickering, B1
- Assistant BFM - LCDR Bob Killius, B1A
- APN / WPN / OPN / WPS Analyst - Betsy Demaret, B1B
- APN / WPN / OPN / WPS Analyst - Sharon Fuina, B1B1

- O&M,N & RDT&E Analyst - Terry Patrick, B1C
- O&M,N & RDT&E, APNG Analyst - Sharon Green, B1C1
- PID / Travel Coordinator / Data Processor - Vacant, (ETC), B1D

- BFM Intern / APN-6 Analyst - LT Chris Parker, B1E
- Orlando BFM Team Lead - Rosanne Schwerman, B1F (TSD)
- Workyear Coordinator - Dee Spaulding, B1F1 (TSD)
- Special Support Programs / NTSP / Training Coordinator / APM(TS) - Vacant, B2
- NTSP / OTMS Coordinator - Vacant, (AKCM),B2A
- Plans, Policy, Projects Team Lead / APM(TS) - Nick Gallipoli, B3
- Configuration Management Specialist - Noreen Hill, B3A
- CBT/ADL Program Manager - Lan Manning, B4
- ADL Assistant (Rotational Assignment) - Ron Stump, B4A
- TSD Liaison (Rotational Assignment) - Julie Rorke, B5

PMA2051
DPM(TS) for Tactical
Aircraft Programs
(Bill Hechmer)

PMA2052
DPM(TS) for ASW/Assault &
Special Missions Programs
(CDR Kevin T. Wilhelm) (Temp.)

PMA2053
DPM(TS) for General Aviation Systems
& Weapons Programs
(Ken McIlhenny)

PMA2054
DPM(TS) for JSF / R&D
Programs
(CDR Kevin T. Wilhelm)

PMA2055
DPM(TS) for Aviation
Training Systems,
Orlando Detachment
(Rob Matthews, TSD)

PMA2051A
Ass't DPM(TS) - (John Potts)

PMA2052A
Ass't DPM(TS) - (James Keller)

PMA2053A
Ass't DPM(TS) - (Mike Mancini)

PMA2054A
Ass't DPM(TS) - (Alan Herod)

PMA2055A
Ass't DPM(TS) - (CDR Rick Mason, TSD)

- EA-6B APM(TS) - John Potts, 1A
- EA-6B TSM - Vacant (LCDR), 1A1
- EA-6B Aircrew TSM - Chris Dunlap, 1A2 (TSD)
- F-14 APM(TS) - Debbie Adams, 1B
- F-14 TSM - AI Atay, 1B1
- F-14 Aircrew TSM - Armando Davila, 1B2 (TSD)
- E-2 / C-2 APM(TS) - LCDR Troy Amundson, 1C
- E-2 / C-2 TSM - Rich Mozeleski, 1C1
- E-2 FMS TSM (Egypt, France) - Edith Robinson, 1C3
- E-2 / C-2 TSM - LT Rob Figge, 1C5 (TSD)
- E-2 / C-2 ATSM - Linda St. Moritz, 1C5A (TSD)
- F/A-18 APM(TS) - LCDR Brian Flachsbart, 1D
- F/A-18 DAPM(TS) - Tom Drobeck, 1DA
- F/A-18 DAPM(TS) - Majonka Wylie, 1DB
- F/A-18 FMS TSM (Finland) - Linda Hankins, 1D2
- F/A-18 / E-2 FMS TSM (F/A-18 Kuwait, E-2 Taiwan, Japan) - Lou Medley, 1D3
- F/A-18 FMS TSM (Malaysia/Switzerland) - James Rather, 1D5
- F/A-18 TSM - LCDR Brian Hicks, 1D6(TSD)
- F/A-18 TSM - LT Chuck Williamson, 1D6A (TSD)
- H-53 / VH-60 / VH-3 APM(TS) - William Laray, 2B
- MH-53 / UH-1 / AH-1 WST TSM - Ricky Haddock, 2B1 (TSD)
- H-1 APM(TS) - Vacant, 2C
- AH-1 FMS TSM (Turkey, Taiwan) - Scott Campbell, 2C1
- H-1 TSM - Ant Hiraman, 2C2, (NAWCAD)
- UH-1 / AH-1 WST TSM - Tim Priebe, 2C3 (TSD)
- CH-60/SH-60F / SH-2 APM(TS) - CDR Henry Jackson, 2D
- SH-60R/B / SH-3 APM(TS) - LCDR Steven Halpern, 2D1
- H-60 TSM - Pending, 2D1A
- H-60 TSM - AKCM Esteban DePlata, 2D2
- H-60 TSM - Brian Thomas, 2D3 (TSD)
- AV-8 APM(TS) - Tony Bocolini, 2E
- AV-8 TSM - Carlos Acosta, 2E1 (TSD)
- AV-8 ATSM - Aida Matta, 2E1A (TSD)
- AV-8 Maintenance TSM - GYSGT Tim McDonald, 2E2 (TSD)
- P-3 APM(TS) - LCDR Jim Hoke, 2F
- P-3 TSM - Bill Lee, 2F1
- P-3 FMS TSM - Lynn Hyatt, 2F2
- P-3 TSM - CDR Mike Keating, 2F5 (TSD)
- P-3 ATSM - Jack Bufford, 2F5A (TSD)
- P-3 ATSM - Tom Neubarth, 2F5B
- S-3 APM(TS) - LT Scott Genard, 2G
- S-3 TSM - Vacant, 2G1
- S-3 TSM - Rocco Sciascia, 2G2 (TSD)

- EP-3 APM(TS) - LCDR Jim Bonomo, 2H
- EP-3 TSM - ATC Jim Howard, 2H1
- E-6 APM(TS) - Larry Simmons, 2J
- E-6 CFCTS TSM - Sally Horns, 3F2 (TSD)
- T-45 APM(TS) - LCDR Randy Dornan, 2K
- T-45 TSM - Robert Young, 2K1
- T-45 TSM - Vickie Getter, 2K2 (TSD)
- T-6A (JPATS) APM(TS) - LCDR Zike, 2K3 (Dayton)
- MCASMP APM(TS) - LTCOL F. McCallister, USMC 2M
- MCASMP Deputy IPT Leader - Pending, 2M1
- MCASMP Rotary Wing TSM - MAJ Jim Rector, USMC 2M2 (TSD)
- MCASMP Fixed Wing TSM - MAJ C. Nysven, USMC 2M3 (TSD)
- MCASMP ATSM - Nancy Gillan, 2M3A (TSD)
- UIC/460/E APM(TS) - Ricky Haddock, 2M3 (TSD)
- IMAT / ASW Training / Resources APM(TS) - AWCS Richard Whitney, 2N
- V-22 APM(TS) - LTCOL Kenneth Fancher, USMC 2V+
- V-22 TSM - Vacant, USAF, 2V1
- USAF V-22 TSM - CAPT Lary Shyock, USAF 2V1A
- V-22 NAWCTSD TSM - Brad Smith (Acting), 2V2 (TSD)
- V-22 TSM - MSGT Donald Higgins, USMC 2V3
- V-22 TSM - MSGT Kevin Forney, USAF, 2V4
- Sonobouy Training - AWCM Michael Kneip, 2X1 (PMA264)

- "A" School / ACT / ATC APM(TS) - LCDR Milt Greene, 3B
- Air Traffic Control TSM - ACCM Howard McGrath, 3B1
- Automated Test Equip / EW TSM - Larry, (ATC), 3B2
- ACT TSM - ATCS Bob Letizi, 3B3
- LSO APM(TS) + ACT / "A" School TSM - Ron Cole, 3C (TSD)
- LSO TSM / ATC / "A" School Ass't - Gale Harrison, 3C1(TSD)
- ATC TSM - LCDR (Sel) Ray Moffitt, 3C2 (TSD)
- ATC TSM - ACCM Earl Helmsick, 3C3 (TSD)
- "A" School Orlando - ATC Loyd Low, 3C4 (TSD)
- NATRADET TSM - TBD, 3C5 (TSD)
- Maintenance CBT APM(TS) - CDR Mark Karr, 3D
- Maintenance CBT TSM - John Fuller, 3D1
- CBT & NAMTRAGRU TSM - AZCM John Abbott, 3D3
- AZCM Kevin Green
- CMI / Interoperability TSM - ETC Craig Kusluch, 3D4
- CASS APM(TS) - LCDR Merrill King 3E
- Common Support Equip TSM - AMHC Dave Edinger, 3E1
- Common Support Equip TSM - AMHC Jeff Bell, 3E2
- Common Avionics/AETE TSM - ATC Rick Paskoski, 3E3
- Common EW TSM - AECS Jim Martin, 3E4
- CNATRA / NASTP APM(TS) - Mike Mancini, 3F
- CNATRA TSM - Vickie Getter, 3F1 (TSD)
- C-130 TSM - Sally Horns, 3F2 (TSD)
- Firefighting TSM - Fritzi Hart, 3F4

- ACTC Program Manager - Captain (Sel) John Harrington
- ACTC Team Leader - To Be Established, 3G
- SFTS / MAWTS APM(TS) - Gweneen Scruggs, 3G1
- AMTS TSM - CDR Mark Baysinger, 3G2
- Air-to-Ground APM(TS) - Jay Bishop, 3H
- Air-to-Ground Weapons TSM - AOC Clayton Smeal, 3H1
- General Weapons - AOC Barry Ewits, 3H2
- Weapons / TWP Analyst - LCDR 3H3 (NSWC IHD)
- Air-to-Air APM(TS) - William Long, 3J (NAWCWD)
- UAV APM(TS) - Walt Malley, 3K
- UAV TSM - GYSGT Tim McDonald, 3K1 (TSD)
- NAMTG Liaison / NAMT APM(TS) - CDR (Sel) R. Barnes, 3L
- Aerial Targets / Ranges APM(TS) - Mark Eagles, 3M (NSWC IHD)
- Naval Aerospace Survival Training APM(TS) - CDR Mark Baysinger, 3N
- NASTP TSM - Charles Betterson, 3N1 (TSD)

- Mission Rehearsal APM(TS) - Alan Herod, 4A
- Mission Rehearsal TSM/NITE Labs APM(TS) - Vacant, 4A1
- JSF APM(TS) M&S - Warren Clare, 4B
- JSF APM(TS) - Mariellen Curtis, 4C
- AWTD / UTSS APM(TS) - LT Henry Williams, 4D
- JSF Maint. Training MSAP APM(TS) - AFCM Taml Kusluch, 4E
- JSF MPT IPTLDR - CDR Rick McQueen, 4F
- JSF TSM - Jeff Calvert, 4F1 (TSD)

- COMS/CSI TSM - Ed Velazquez, 5B (TSD)
- CACT TSM - Bob Sheldon, 5C (TSD)
- ISD TSM - James White, 5D (TSD)
- BFM - TBD, 5E (TSD)
- Program Analyst / Program Support - Dee Spaulding, 5E1 (TSD)
- Program Analyst / Program Support - Brenda Farmer, 5E2 (TSD)
- Program Analyst / Program Support - Lalaine Valyda, 5E3 (TSD)
- Program Analyst / Program Support - Joyce Moore, 5E4 (TSD)
- Program Analyst / Program Support - Clara Bailey, 5E5 (TSD)
- Program Analyst / Program Support - Betty Hutchinson, 5E6 (TSD)
- Program Analyst / Program Support - Liza Frohlich, 5E7 (TSD)
- Program Analyst / Program Support - Carolyn Wyatt, 5E8 (TSD)
- Program Analyst / Program Support - Barbara Denicola, 5E9 (TSD)
- Program Analyst / Program Support - Pat Genung, 5E10 (TSD)
- Admin - Patricia Hopkins, 5F (TSD)
- Secretary - Beverly Gibbs, 5F1 (TSD)
- Clerk - Amber Shirley, 5F2 (TSD)

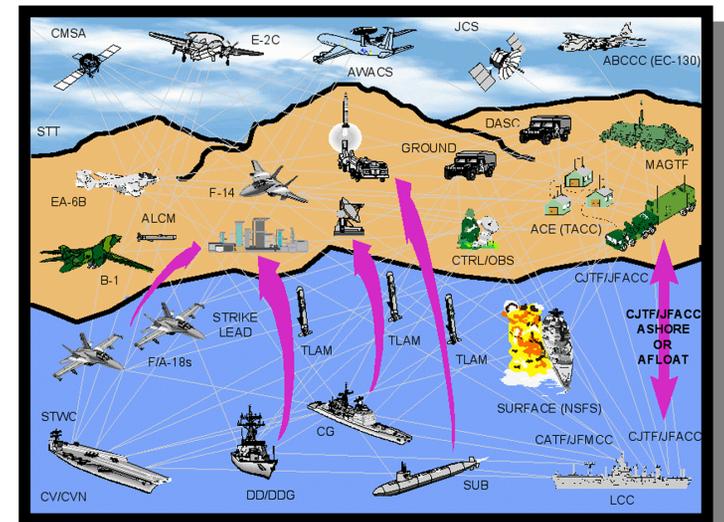
Blue - NAWCTSD
Green - Other Field Activities
Black - NAVAIR

Buy-Through-The-Prime Programs

- T-45 [PMA-273 / PEO(A)]
- F/A-18 [PMA-265 / PEO(T)]
- V-22 [PMA-275 / PEO(A)]
- H-60 [PMA-299 / PEO(A)]
- JPATS [PMA-273 / PEO(A)]
- JSF [Joint]
- KC-130J

Training Systems Overview: “A PMA205 Perspective”

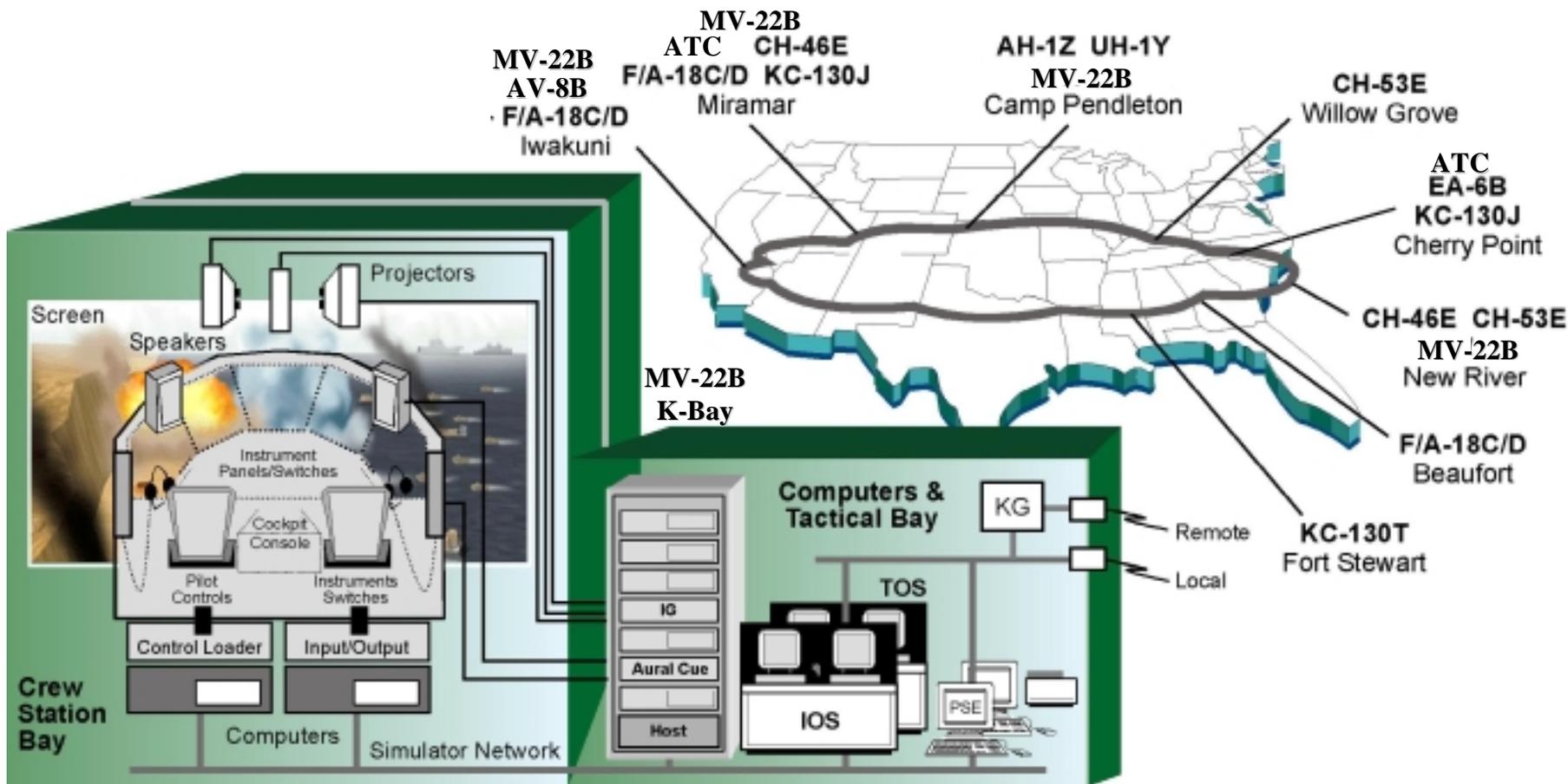
- **Computer Based Training to Advanced Distributive Learning**
 - Strike Fighter Training System
 - Aviation Multi-purpose Training System
 - Air Combat Training Continuum
 - Aviation Maintenance Training Continuum System
 - Platform Specific
 - Computer Based Training
- **Marine Corps Aviation Simulator Master Plan**
- **By-Through-the-Prime**
 - T-45
 - F/A-18
 - V-22
 - H-60
 - JPATS
 - JSF
 - KC-130J
- **Microsims**



NETWORK CENTRIC WARFARE

MCASMP Overview –

A Tactically Relevant, Networked Training System



Training Systems Overview: “A PMA205 Perspective”

EXTERNAL DRIVERS

- **Technology (Placement and Development)**
- **Reduced Budgets and Training Resources**
- **Industry Direction**
- **Increasing Training Requirements as Budget Execution Dollars decrease (ever widening gap/instability)**
- **Requirements for cheaper, deployable, transportable, reconfigurable devices.**
- **Networking; ADL; Distributed Asynchronous Learning**

Training Systems Overview: “A PMA205 Perspective”

TRENDS

- **Non-Motion Based, Smaller, Deployable, Modularized Simulators**
- **Miniaturization of Simulation Components**
- **Web-Based; Web-Delivered Courseware**
- **Embedded Training**
- **Lower Cost COTS Technology Products (If Able) Games (Microsims)**
- **PC Based Visuals**
- **Networked Systems**
- **Smaller, Brighter Display Systems**
- **Physics Based Sensor Simulations**

Training Systems Overview: “A PMA205 Perspective”

Training Organizations

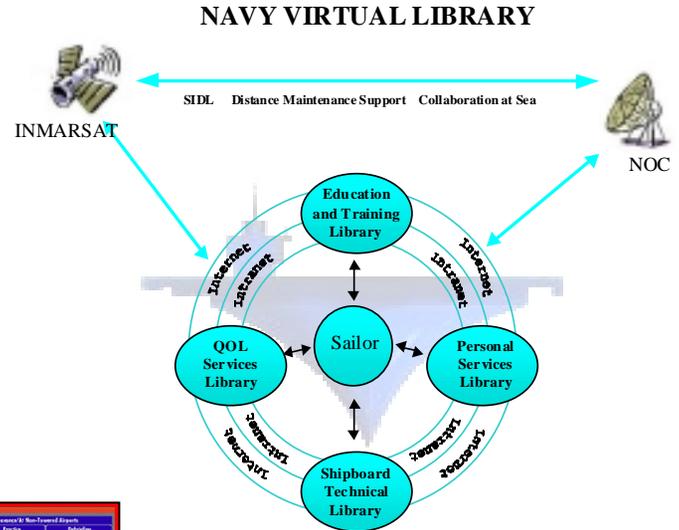
NAVAIR PMA205

- Director of Naval Training (N7), Chief of Naval Operations (CNO)
- Chief of Naval Education and Training (CNET)
- Naval Air Systems Command (NAVAIR)
- Naval Sea Systems Command (NAVSEA)
- Chief of Naval Air Training (CNATRA)
- Commander, Training Command, U.S. Atlantic Fleet (COMTRALANT)
- Commander, Training Command, U.S. Pacific Fleet (COMTRAPAC)
- Navy Special Warfare Command (NAVSPECWARCOM)
- Naval Air Warfare Center Training Systems Division (NAWCTSD)
- Naval Reserve Force (NAVRESFOR)
- Naval Reserve Officers Training Corps (NROTC)
- Naval Junior Reserve Officers Training Corps (NJROTC)
- Commander, Marine Corps Systems Command (COMMARCORSSYSCOM)
- Commanding General, Marine Corps Combat Development Command (CG, MCCDC)
- Commandant's Warfighting Laboratory (CWL)
- Marine Corps Modeling and Simulation Management Office (MCMSMO)
- Marine Corps Air-Ground Combat Center (MCAGCC), Twenty-nine Palms, California
- Camp Pendleton Marine Base, California
- Marine Corps Service Support Schools (MCSSS), Camp Johnson, North Carolina
- Mountain Warfare Training Center (MWTC), Bridgeport, California
- Marine Forces Reserve (MARFORRES), New Orleans, Louisiana
- Marine Corps University (MCU)
- Marine Corps Institute (MCI)

Chief of Naval Education and Training (CNET) - Responsible to the Chief of Naval Operations (CNO) for the education and training of Navy and Marine Corps personnel, both officer and enlisted. CNET oversees a network of training and education programs throughout the United States and on ships at sea.

• ADL Initiatives

- Navy Learning Network
- Navy Virtual Library (CNO Interest)
- "A" and "C" Schools



T-34C

Corpus Christi, Whiting Field, Pensacola

- Familiarization
- Basic Instruments
- Radio Instruments
- Radio Comms
- Team Skills



Comm/ATC Radio Simulation
Corpus Christi, Whiting Field, Pensacola



TC12/T-44
Corpus Christi



Navy ROTC
Units



Strike Team Prototype
VFA-201 JRB Ft. Worth

• Microsims (CNATRA)

APN-7 Projects

FY02 - FY07

< \$1M		\$1M-\$2M	\$2M-\$5M		\$5M-\$10M	>\$10M
21 Programs		13 Programs	19 Programs		3 Programs	12 Programs
P-3 Nav Trnr (02)	Av Phys 9A Series (06)	F-14 Aircrew Training Suite Mods	ESL (02-07)	A School ATC Trnr Upgrade (03-07)	EP-3 (02-07)	CBT Maint (02-07)
AH-1W Operational Trainer (02-07)	UTSS (02)	A School 11B108 Upgrade (03)	S-3 TECR Implement (04-07)	F-18 TOFT Upgrade (06)	T34 SLEP (02-05)	A School ECR/LRC (02-07)
F-14 NAMT Malfunction Upgrd (02-04)	Av Phys CFET (06)	A School 11H116 Rehost (04)	E-6 OFT Visual Upgrade (05)	Helo Dunker SLEP (03-04)	A School Int Elec Sys Trnr (04-06)	ACTC (02-07)
Av Phys 9B6 Rehost (05)	UH-1N (02-07)	F-14 Maint Trnr Suite	EA-6B 2F178 Rehost (07)	F-14 Eng/Tech		P-3 Vis Sys Upgrade (02-05)
LSO (02,04)	F-14 14D Rehost	S-3 IOS Tactics Upgrade (02)	P-3 DARTS (02-07)	SFTS (02-07)		MCASMP (03)
Av Phys VRT Upgrade (04-05)	KC-130 "O" Lvl Trnr (02-04)	CH-53E (02-07)	P-3 Trnr Spt (02-07)	KC-130 OFT Upgrade (07)		P-3 2F140 SLEP (03-05)
EA-6B IOS Upgrade (02)	EA-6B Aircrew Trnr Reinstument (03)	EA-6B 2F143 Aircrew Trnr (04-05)	A School Tech Support (02-05)	T44 SLEP (02-04)		ATC Trainers (02-03, 05-07)
F-14 Vis Sys Upgrade	F-18 Trnr Support (02)	F-14 Trnr Mods (02-07)	E-6 FQIP (03-07)	Nite IR (02-07)		E-6 WST Mods (04-07)
F-14 OFP	E-6 OFT Rehost (02)	EA-6B Mods (02-07)	Av Phys Underwater Egress Trnr (02-07)	Centrifuge Environment Trainer Rehost (06-07)		AMTS (02-07)
F-14 Network	F-14 VDIG/HUD	S-3 FRS CBT & Vis Upgrd (02-03)	F/A-18 SAMT Upgrade (06)			MAFTD (03-07)
	AH-1W APT Support (02)	P-3 ECP Mods (02-05)				T-45 OFT Rehost (06-07)
		ATC 15G3X Upgrade (02)				F/A-18 WTT Upgrade (07)
		CH-46E (02-07)				