



**MARINE CORPS SYSTEMS COMMAND**

*Equipping our MARINES*

# PORTFOLIO MANAGER LOGISTICS COMBAT ELEMENT SYSTEMS

*Col John Gutierrez*





# MARINE CORPS SYSTEMS COMMAND

## Equipping our MARINES

# Introduction

\$1.155B annual appropriation (\$8.175B FYDP FY24–28)



Located in 10 States + Japan



452 Marines, Sailors, Civilians & Contractors



**Vision:** Accelerate innovation and delivery of operationally relevant solutions to enable lethality to the Fleet Marine Force

ACAT	Pre-MDD	Post-MDD	EMD	P&D	O&S	Total
I	0	0	0	1	0	1
II	0	0	0	0	0	0
III	0	0	0	3	0	3
IV	0	0	0	4	0	4
AAPs + Others/Non-POR*	72	3	9	62	150	296
<b>Total</b>	<b>72</b>	<b>3</b>	<b>9</b>	<b>70</b>	<b>150</b>	<b>304</b>



PMM-150



PMM-151



PMM-152



PMM-153



PMM-154

**Mission:** PFM-Logistics Combat Element Systems equips and sustains the Fleet Marine Force with Engineering, Supply, Maintenance, Ammunition, and Tactical Wheeled Vehicle systems and solutions to enable lethality.



# MARINE CORPS SYSTEMS COMMAND

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## LCES in support of the FMF

### LCES Areas of Expertise

 Power Systems

 Fuel & Water Systems

 Explosive Hazard Defeat Systems

 Material Handling & Construction Equip

 Expeditionary Medical Systems

 Shelters, Field Feeding, and Containers

 Test Measurement Systems

 Tools & Diagnostic Systems

 Corrosion & Combat Service Systems

 Advanced Manufacturing Systems

 Ground Ammunition

 Explosive Safety

 Tactical Wheeled Vehicles

**FY23  
FOCUS  
AREAS**

#### PFM

- ▶ Respond to Force Design
- ▶ Engagement, Divestment & Investment
- ▶ Logistics in a Contested Environment

#### PM-Engineering Systems

- ▶ Rapid Statement of Need for EOD (Littoral Explosive Ordnance Neutralization System) (Family of LEON systems)
- ▶ Tactical Aviation Ground Refueling System (TAGRS)
- ▶ Expeditionary Mobile Fuel Additive Capability (EMFAC)

#### PM-Supply & Maintenance Systems

- ▶ Condition Based Maintenance Plus (CBM+)-pilot program
- ▶ Hand-Held Radio Test Set (HHRTS) – Contract Award
- ▶ Expeditionary Fabrication (XFAB) – Fielding
- ▶ Expeditionary Fluid Analysis System (EFAS) – Fielding
- ▶ Tactical Radio Intermediate Maint. Activity Test Set (TRITS) – Field User Evaluation of TS-4549

#### PM-Ammunition

- ▶ Presidential Drawdown & Replenishment
- ▶ Fielding Ordnance Information System-Marine Corps Operational Module
- ▶ .50 cal polymer lightweight ammunition

#### PM-Light Tactical Vehicles

- ▶ HMMWV and LTT sustainment and divestment
- ▶ JLTV Vehicle and Trailer Fielding
- ▶ UTV Refresh Fielding / ULTV Fielding - Training

#### PM-Medium & Heavy Tactical Vehicles

- ▶ Modernization of Medium and Heavy Tactical Vehicle platforms
- ▶ Fielding Medium and Heavy Trailers
- ▶ Fielding improvements/modifications to the FMF for multiple MHTV platforms



## **Areas Where Industry Can Help**

- ▶ **Next Generation Battery & Micro Power Systems**
- ▶ **Low Power Water Purification Systems**
- ▶ **Autonomous Pallet Loader & Pioneer Systems**
- ▶ **Supporting the “Golden Hour” Paradigm Shift**
- ▶ **Advanced Expeditionary Field Feeding Equipment**
- ▶ **Expeditionary Fabrication / Advanced Manufacturing**
- ▶ **AI & ML Technologies to Improve Productivity, Quality and the User Experience for Maintenance**
- ▶ **TWV Efficiency Efforts**
- ▶ **Future Replacement for ULTV Fleet**



# Areas Where Industry Can Help

- ▶ Solar Panels
- ▶ Refrigerated Containers
- ▶ Lithium-Ion Batteries

**PM ES Opportunities**

<b>Title</b>	<b>Planned RFP</b>
Environmental Control Equipment Modernization	June 2023
Multi-Terrain Loader Replacement (MTLR)	September 2023



## Areas Where Industry Can Help

- ▶ **Next Generation General Purpose Automatic Test System Request For Information (RFI) 3QFY23**
  - Seeking information from industry regarding replacing currently fielded General Purpose Automatic Test Systems (GPATS).
  - The system provides portable test capability that is re-configurable for multi-role operations. GPATS has the capability of powering, screening, testing, and diagnosing electronic, electro-optical and electro-mechanical Line Replaceable Units (LRUs) and Circuit Card Assembly (CCA) for a wide variety of weapon systems and equipment.
  
- ▶ **Advanced Circuit Card Automated Tester RFI 4QFY23**
  - Seeking information from industry for an Augmented Reality/Machine Learning capable Circuit Card Assembly Test Station.
  - Advancements in software and robotic technology allow for improved standardized data collection, inspection, and testing. Automated methods of data collection (using electronic and optical measuring techniques to measure electrical parameters using test equipment) will standardize data collection to a higher degree of accuracy and provide greater capacity.
  
- ▶ **Commercial Corrosion Repair RFI 1QFY24**
  - Focused on vicinity of Camp Pendleton, CA. Seeking commercial corrosion repair services for multiple Tactical Ground Weapon Platforms.
  
- ▶ **Augmented Reality/Virtual Enhancement (AR/VE) RFI FY25**
  - Seeking AR/VE capabilities to be employed with the Electronic Maintenance Support System for training and maintenance aids for weapons platforms resulting in decreased maintenance cycle times with step-by-step instructions and fewer mistakes in maintenance tasks.



## PM SMS Opportunities

Title	Planned RFP
▶ <b>Advanced Circuit Card Tester</b>	<b>4QFY24</b>
▶ <b>Commercial Corrosion Repair Services vic Camp Pendleton</b>	<b>1QFY25</b>
▶ <b>Next Generation General Purpose Automatic Test System</b>	<b>4QFY25</b>
▶ <b>Scalable Combat Field Feeding Systems and Concepts</b>	<b>4QFY25</b>
▶ <b>Augmented Reality/Virtual Enhancement</b>	<b>FY26</b>





## Areas Where Industry Can Help

- ▶ Lightweight ammunition packaging
- ▶ Polymer casing recycling
- ▶ 3D printable munitions and energetics
- ▶ 3D printable packaging
- ▶ Reduced acoustic, thermal and visual signatures of small arms ammunition
- ▶ Trace capability for 40mm HV (OWL) (FY24 SBIR Phase 1)
- ▶ Increased lethality with 40mm weapons systems
- ▶ Variable Angle Anti-Personnel Obstacle Breaching System (FY24 SBIR Phase 1)
- ▶ Less hazardous combustion gasses



**PM Ammo Opportunities**

<b>Title</b>	<b>Planned RFP</b>
40mm Practice MK281 MOD 1 Linked (BA21)	4 <sup>th</sup> Qtr, FY24


**PM Light Tactical Vehicles Opportunities**

Title	Planned RFP
...	...
▶ JLTV MEF liaison support follow on contract	Award 3d Qtr FY23
▶ PM LTV equipment specialist support contract MCLB Albany, GA	RFP release 1 <sup>st</sup> Qtr FY24



## Areas Where Industry Can Help

- ▶ Work with NUWC Division Keyport on obsolescence management and provide solutions for sources of supply on obsolete parts
- ▶ Improve supply chain availability and lead times
- ▶ Early notification to Government of discontinued and/or terminated National Item Identification Numbers (NIINs) supporting vehicles still in service, to allow for tech data or other information sharing to enable Defense Logistics Agency (DLA) sourcing
- ▶ Mature additional MIL-PRF-32565C Type 1 battery chemistries with improved energy and power densities
- ▶ Design lightweight sub-systems/components utilizing additive manufacturing or composites



**PM MHTV opportunities for industry next 6-18 months:**

Title	Planned RFP
M870A2-OR Suspension Upgrade Follow-On Production	3QFY24



# QUESTIONS?

Contact :

## CONTACT US



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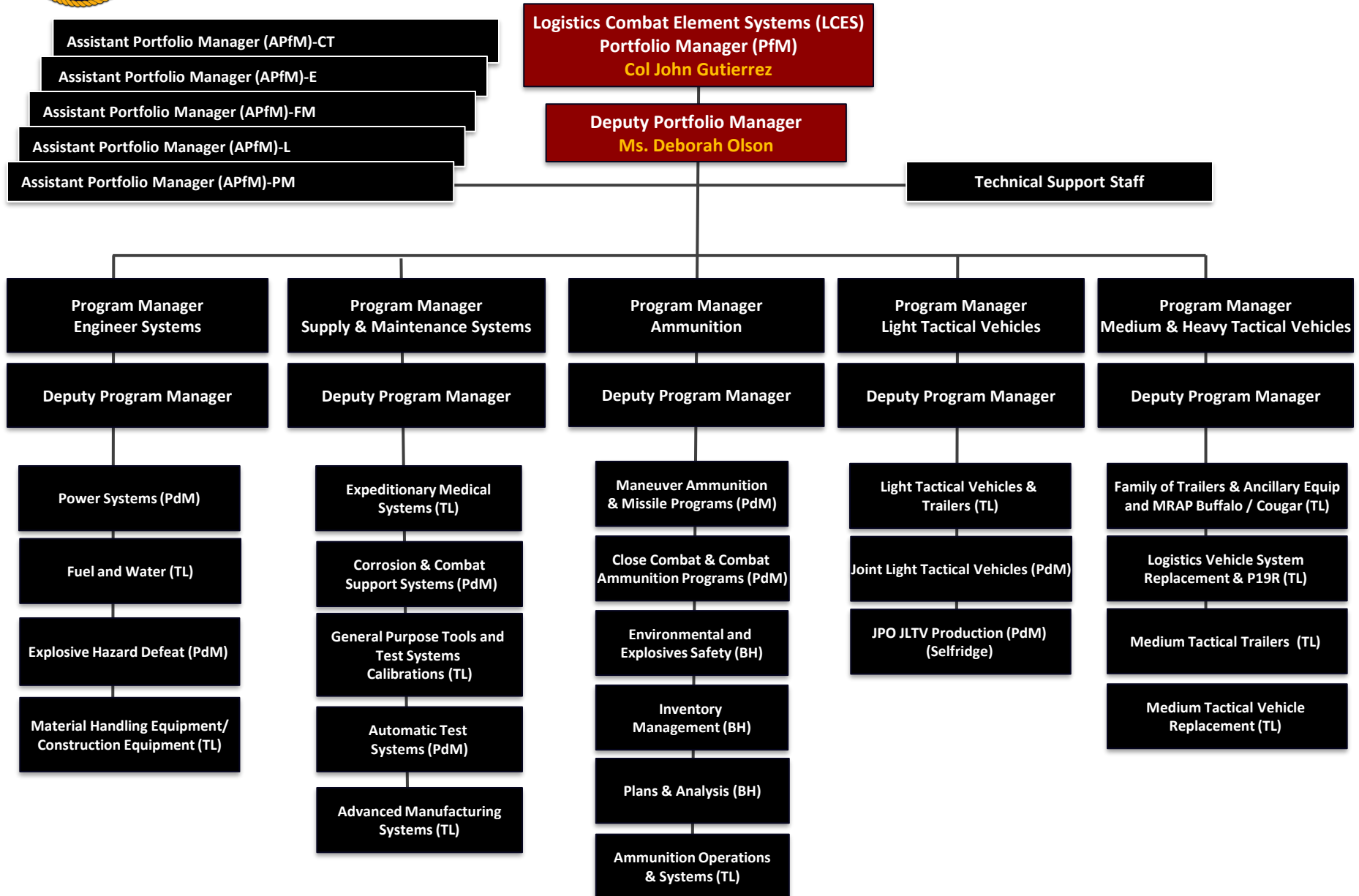




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## Logistics Combat Element Systems





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# PfM LCES Portfolio

50 Cal Poly	50 Caliber Polymer Case Ammunition	EFSSBRS	Expeditionary Fire Suppression System Bottle Refill Shop	IAM	Internal Appointment Module	PQAS-E	Petroleum Quality Analysis System - Enhanced
117F RPA	AN/PRC-117F Radio Power Adapter	EMFAC	Expeditionary Mobile Fuel Additive System	IFAK	Individual First Aid Kit	PWPS	Platoon Water Purification System
117G RPA	AN/PRC-117G Radio Power Supply	EMSS	Electronic Maintenance Support System	Infrascanner	Infrascanner	QUAD/RUD	Quadruple Container with Roll-Up Door
120M	120M Road Grader	EMSS	Electronic Maintenance Support System - Legacy / IETM reader	IPMS	Intelligent Power Management System	R2C Inc I	Route Reconnaissance & Clearance Robot - Increment I
150 GPM	150 GPM Pump System	ENFIRE	Instrument Set, Reconnaissance and Surveying	IRB	Improved Ribbon Bridge	R2C Inc II	Route Reconnaissance & Clearance Family of Systems Increment II
260 CFM	260CFM Air Compressor	EOD DC	Explosive Ordnance Disposal - Diagnostic Capability	ITEG	Integrated Trailer Environmental Control Unit Generator	RHH3D Scanner	Ruggedized Hand Held 3-D Scanner for EOD
5T ECU	Environmental Control Unit - 5 Ton unit rebuy	EOD DFD	EOD Demolition Firing Device	ITEG2	Integrated Trailer Environmental Control Unit Generator II	RAIDC	Rapid Acquisition of Interim Dynamometer Capability
600 GPM	600 GPM Fuel & Water Pump Assembly (Phase A)	EOD DSS	EOD Decision Support System	IWPS	Individual Water Purification System - Block II	RFDs	EOD Remote Fuze Disassembly System
600 GPM	600 GPM Fuel & Water Pump Assembly (Phase B)	EOD DSS	Explosive Ordnance Disposal Decision Support System	JAB	Joint Assault Bridge	RPA	Family of SINCGARS Radio Power Adapters
ABC	Advanced Battery Charger	EOD ERK	EOD Expeditionary Radiographic Kit	JLTV	Joint Light Tactical Vehicle	RPS	Ruggedized Power Supply
ABS	Advanced Bomb Suit	EOD VA	EOD Enhanced Visual Augmentation (via PM IWS)	JMIC	Joint Modular Intermodal Container	RSV/RST	Resupply Vehicle/ Resupply Trailer
ABV	Assault Breacher Vehicle	EOD VIC	EOD Video Inspection Capability	LABM	Lead Acid Battery Management	RTCH	Rough Terrain Container Handler Legacy
ABV SCWS	Assault Breacher Vehicle Stabilized Commander's Weapon Station	ESST	Electricians Shop Set: Trailer	LAV AT APS	Light Armored Vehicle Anti-Tank Application Program Set	RTCH - SLEP	Rough Terrain Container Handler SLEP
ABV-FWMP	Assault Breacher Vehicle Full Width Mine Plow Modification	ETMS	Expeditionary TMDE Maintenance System	LCRTF	Light Capability Rough Terrain Forklift		
ADRK	Airfield Damage Repair Kit	ETRHS	Enhanced Tray Ration Heating System	LEON	Littoral Explosive Ordnance Neutralization	RWS	Family of Rigid Wall Shelters
ADRK-L	Airfield Damage Repair Kit - Legacy	ETRHS	Enhanced Tray Ration Heating System	LLS	Laser Leveling System	SABER APS	SABER Application Program Set
AMAL	AMAL/ADAL (Authorized Medical /Dental Allowance List) Modernization	ETRHS	Enhanced Tray Ration Heating System Sink	Load Bank	Generator Load Bank	SAPS	Stay Alive Power Supply
AMK 970	Armored Aircraft Refueler	ETS	Electrical Test Shop (AGRS in transportable shelter)	LVSR	Logistics Vehicle System Replacement	SEC	Shop Equipment Calibration
AMMPS	Advanced Medium Mobile Power Sources	EWDS	Expeditionary Water Distribution System	LWPS	Lightweight Water Purification System	SEMS	Shop Equipment Machine Shop
Arctic Shelter	Arctic Shelter System	F2ME	Family of FOD Mitigation Equipment	M870A2E1	50 Ton Low Bed Medium Heavy Equipment Transporter	SET	Shop Equipment: Tire
ATC	All Terrain Crane SLEP (Service Life Extension Program)	FamEOD TK	Family of EOD Tool Kits	M870A2-S	40 Ton Medium Heavy Equipment Transporter	SPACES	Solar Portable Alternative Communications Energy System
ATC	All Terrain Crane Legacy	FAPS	Family of Application Program Set	M9 ACE	Armored Combat Earthmover M9	SPC	Suitcase Portable Charger
Autodise	Autodise	FAS	Field Anesthesia System	M-ATV	MRAP All Terrain Vehicle	SS	Sickle Stick
Bath & Shower	Bath & Shower Readiness Buy	FECHK	Family of Engineer Construction Tool Kits	MADCS	Microgrid AMMPS Digital Control System	SUGV 310	Small Unmanned Ground Vehicle 310
BCWD	Buried Command Wire Detection	FEFS	Family of Expeditionary Fuel Systems	MCT	Medium Crawler Tractor	Sweeper	Runway Sweeper
BEB	Bridge Erection Boat ECPs	FLS	Floodlight Set	MCT Comm	Medium Crawler Tractor Communications	SWS	Family of Soft Wall Shelters
BPS	Benchtop Power Supply	FRC	Flatrack Refueling Capability	MCTWS	Marine Corps Tactical Weld Shop	TACFAB	Tactical Fabrication
BSS	Bath Shower Sink Improvement	FRS	Future Radiographic Systems	MEHPS	Mobile Electric Hybrid Power Sources	TAGRS	Tactical Aviation Ground Refueling System
CASEVAC	Casualty Evacuation (CASEVAC) System	FRS	Field Refrigeration System	MEPDIS-R	Mobile Electric Power Distribution System - Replacement	TETS	Third Echelon Test Set - Electro-Optical Variant
CBL	Containerized Batch Laundry	FRSS	Forward Resuscitative Surgery System	MGB	Medium Girder Bridge	TQG	Family of Tactical Quiet Generator Legacy Support
CCATS	Circuit Card Assembly Test Station	FSS	Fire Suppression System	MIRCS	Mobile Integrated Remains Collections System	TRAM	Tractor Rubber Tired, Articulated Steering, Multi-Purpose
CEEMC	Communication Electronics Equipment Maintenance Complex Shelter	FT&AE	Family of Trailers & Ancillary Equipment	MK154	MK154 Launcher, Mine Clearance System	TRIAPS	Tactical Radio Intermediate Maintenance Activity APS
CFSS	Combat Field Feeding System	FTS-E	Fuel Test Stand - Expeditionary & Garrison	MRAP	Mine Resistant Ambush Protected (vehicle)	TS&K	Tool Sets & Kits Family of Systems
Citadel	Citadel III AN/PLT-5	GPATS	General Purpose Automatic Test System Modernization	MRPAT	Multi Radio Power Adapter Tower	TWDS	Tactical Water Distribution System
CPAC	Corrosion Prevention and Control	GPETE	General Purpose Electronic Test Equipment	MRS	Mine Roller Family of Systems	TWPS	Tactical Water Purification System
CRD	Carbon Rod Detector	GPMT E	General Purpose Mechanical Test Equipment	MRTS	Microwave Radio Test Set	ULCANS	Ultra-Lightweight Camouflage System
CREK	Cooling and Refrigeration Kit	GREENS	Ground Renewable Expeditionary Energy Network System	MTL	Multi-Terrain Loader	ULR	Ultralight Robot
D6K	D6K, Light, Full-Tracked, Tractor Program	GRMATs	Ground Radio Maintenance Automatic Test System	MTRS	Man Transportable Robotic System - Inc II	ULTV	Ultra Light Tactical Vehicle
DFFM	Digital Fluid Flow Meter	H&L kit	Hook & Line Kit	MTVR	Medium Tactical Vehicle Replacement	UTV	Utility Task Vehicle
DXRM	Digital X-Ray Machine	HHRTS	Hand Held Radio Test Set	MTVR FE	Medium Tactical Vehicle Replacement Fuel Efficiency	VADS-MT	Vehicle Automated Diagnostics System (MT) & Ordnance
EBFL	Extendable Boom Forklift Modernization	HIMARS	High Mobility Artillery Rocket System	P-19R	Aircraft Rescue and Fire Fighting Vehicle	VMC	Vehicle Mounted Charger
ECU	Family of Environmental Control Units	HMDS	Husky Mounted Detection System Generation II Enhanced	PEAK	Petroleum Expeditionary Analysis Kit	VMMD	Vehicle Mounted Mine Detector
ECU2014	Environmental Control Unit 2014 9K/18K BTU/HR	HMEE	High Mobility Engineering Excavator	PF TK	Pipefitter's Tool Kit	WQAS-P	Water Quality Analysis System - Purification
EET	Engineer Equipment Trailer	HMMWV	High Mobility Multi-purpose Wheeled Vehicle	PLS-T	Palletized Load System Trailer	WRS	Washrack System
EFAS	Expeditionary Fluid Analysis Systems	HRS-W	Hose Reel System - Water	PPTLSS	Portable Patient Transport Life Support System	WSUP	Wheelbank Suspension Upgrade Program
EFK	Expeditionary Field Kitchen	HydroSeeder	Hydro Seeders Readiness Buy			WTS	Wheeled Tractor Scraper
EFS	Expeditionary Fuel System	HYEX	Hydraulic Excavator			X-FAB	Expeditionary Fabrication
						EXP	Example Program