



U.S. ARMY



PM SKOT Ordnance Systems

20 June 2016

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ORDNANCE SYSTEMS

- Metal Working and Machining Shop Set (MWMSS)
- Armament Repair Shop Set (ARSS)
- Hydraulic System Test and Repair Unit (HSTRU)
- Fire Suppression Refill System (FSRS)
- Load Bank System (LBS)
- Machinist's Measuring Tool Set (MMTS)

Program Description

The Metal Working and Machining Shop Set (MWMSS) is a concept that assembles and packages tool load configurations based on the 91E (Allied Trades) MOS. MWMSS replaces multiple LINs which are outdated, unsupported and are themselves part of the non-modernized equipment that “hinder current operations”.

This system comes in two types, TYPE I and TYPE II. TYPE I will contain a Computer Numeric Controlled (CNC) Lathe, Mill Drill, Multi-Process Welding, Thermal Cutting equipment, Air-Arc Gouging, air compressor, Mobile Electric Power (MEP) generator for shop power, Environmental Control Unit (ECU), and assortments of hand/air tools.

TYPE II augments Type I and will contain a CNC Milling Machine, Plasma table, ECU, and an assortment of hand/air tools.

AAO: Type 1 – 227, Type 2 - 190
 Quantity Fielded: Type 1 – 0, Type 2 - 0
 APUC: Type 1 – \$374K, Type 2 - \$284K
 Quantity on Contract: Type 1 – 25, Type 2 -23

Recent Milestones or Events Since Last PSR

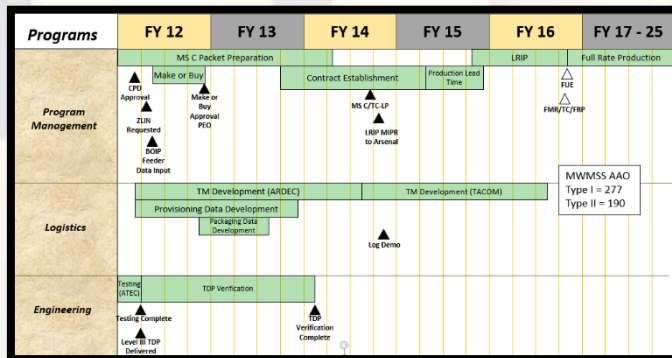
- MSC - Jun 2014
- Log Demo completed - Aug 2014

Near term Milestones or Events in the Next 90 days

- Full Material Release (FMR) August 16
- First Unit Equipped (FUE) August 16



Program Schedule, Budget and Status



FY17	FY18	FY19	FY20	FY21
\$13.252M PA	\$10.520M PA	\$14.044M PA	\$16.896M PA	\$18.762M PA

Program Issues/Concerns

- Schedule delays due to difficulties completing Technical Manuals.
- MWMSS is built at the Joint Manufacturing Technology Center Rock Island II
- Manufacturing processes are being refined and TDP is being updated using the ECP process
- Labor rates unchanged for FY17 build

Cost	➔	Congressional	■
Schedule	➔	T&E	■
Performance	➔	Interdependencies	■

Color indicates current condition, Direction indicates future assessment



Armament Repair Shop Set (ARSS)



ACAT III – P&D

Unclassified: FOUO

PEO CS&CSS/PM FP/PdM SKOT

Program Description

The Armament Repair Shop Set (ARSS) will update the armament tools, sets and kits, take advantage of technology advancements, improve accountability and transportability and incorporate tool warranties. The current armament tool sets date back more than 25 years and are antiquated, bulky and difficult to maintain, inventory and transport. The Shelter will contain a Mobile Electric Power (MEP) generator for shop power, an assortment of hand as well as air tools and an Environmental Control Unit (ECU).

The ARSS will consolidate these five LINs:

1. T24523 Artillery Shop Set
2. T31784 Fire Control System Repair
3. W51499 Small Arms Shop Set
4. T16597 Small Arms Shop Set

AAO: 995

APUC: \$420K

Quantity Fielded : 16

Quantity on Contract: 58 (TYAD)



Recent Milestones or Events

- Jul 2014: Milestone C/Type Classification-Standard/Full Rate Production
- Jul 2014: Full Material Release
- Mar 2015: First Unit Equipped

Milestones or Events in the Next 90 Days

- Production and Deployment

Program Schedule, Budget and Status

	FY14				FY15				FY16			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
PROGRAM MANAGEMENT				▲ MJC ▲ FMR/TC ▲ FIP			▲ FUE	▲ SCIP Approval	Full Rate Production			
LOGISTICS	Contract Evaluations with Tobyhanna				▲ TM Verification ▲ Long Term/Val Yr							
ENGINEERING				▲ MIPR to Tobyhanna and Natick								
	FY17	FY18	FY19	FY20	FY21							
	\$15.108M PA	\$11.517M PA	\$16.6M PA	\$18.6M PA	\$19.8M PA							

Program Issues/Concerns

- Integrated Wall separating from the ceiling. Tobyhanna team onsite from 13 to 17 June to evaluate and repair.
- ARSS PLS/LHS prototype effort starts in FY17MWMSS is built at the Joint Manufacturing Technology Center Rock Island II
- Manufacturing processes are being refined and TDP is being updated using the ECP process
- Labor rates unchanged for FY17 build

Cost	➡	Congressional	█
Schedule	➡	T&E	█
Performance	➡	Interdependencies	█

Color indicates current condition, Direction indicates future assessment

Program Description

The HSTRU is a robust hydraulic line and hose repair system capable of supporting 3 trained ordnance/engineers. HSTRU is HMMWV towable and air / helicopter transportable. It is built on the M1102 heavy Trailer.

Maintenance Capabilities Delivered

- Crimp style and field attachable hydraulic hose assembly fabrication
- Society of Automotive Engineers (SAE) and Joint Industrial Council (JIC) metal tube flaring and fabrication
- Metal tube bending
- Pneumatic brake line fabrication
- On-system hydraulic test circuit

AAO: 691
 APO: 627
 APUC: \$133K
 Quantity Fielded : 438
 Quantity on Contract: 438

Recent Milestones or Events Since Last PSR

- Aug 2014 - AAO increase from 433 to 691
- Sep 2015 – approved APO of 627

Near term Milestones or Events in the Next 90 days

- New BOIP being updated to decrease AAO from 691 to 57



Program Schedule, Budget and Status

	FY15				FY16				FY17			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
PROGRAM MANAGEMENT											Full Rate Production	
LOGISTICS									Contract expires	Re-award Contract	Obligate FY17 funds	
ENGINEERING												
	FY17		FY18		FY19		FY20		FY21			
	\$3.084M PA		\$1.483M PA		\$2.376M PA		\$6.003M PA		\$4.461M PA			

Program Issues/Concerns

- Working Bridge contract to support 81 HSTRUs in FY17 to meet new AAO and OCO requirements
- Current FY17 funding available is for 43 OPA HSTRUs and 12 OCO HSTRUs
- Funding shortfall for 24 HSTRUs Possible additional 25 for multirole BDs making the bridge for 81 go to 106
- OEM is MANDUS Group Rock Island II

Cost	➡	Congressional	█
Schedule	➡	T&E	█
Performance	➡	Interdependencies	█

Color indicates current condition, Direction indicates future assessment



Fire Suppression Refill System (FSRS)



ACAT III

Unclassified: FOUO

PEO CS&CSS/PM FP/PdM SKOT

Program Description

The FSRS is a self-contained, integrated unit equipped for safe performance of refilling fire suppression bottles and systems. It consists of a dismountable trailer-mounted enclosure (capable of stand-alone or trailer-mounted operation) containing the tools and equipment needed to fulfill the required refill tasks. FSRS consists of a transportable ISO container with an environmental control unit.

AAO: 171
 APUC: \$374K
 Quantity Fielded : 0
 Quantity on Contract: 0

Recent Milestones or Events

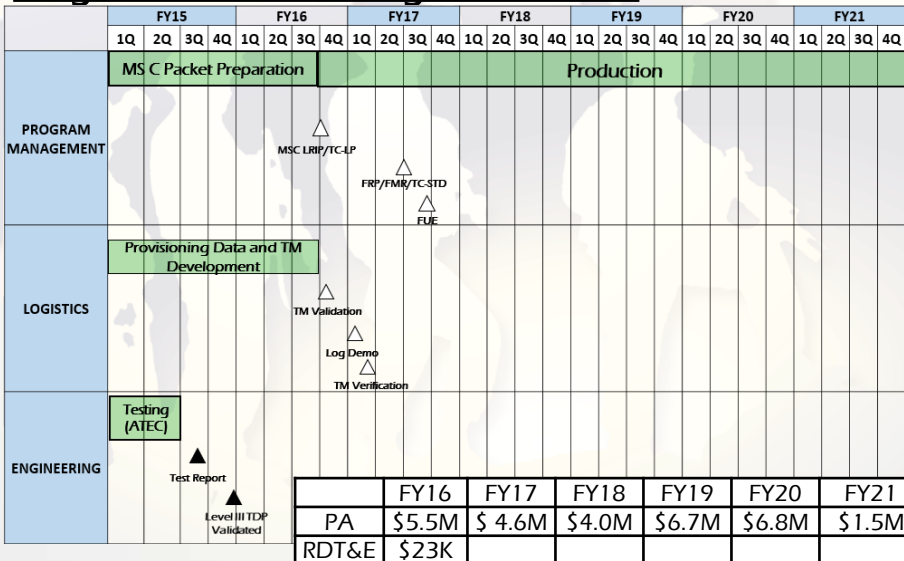
- Mar 2015: Testing Complete

Milestones or Events in the Next 90 Days

- Jul 2016: TM Validation Effort
- Jul 2016: JMTC MOA/SOW
- Jul 2016: Milestone C LRIP/TC-LP



Program Schedule, Budget and Status



Issues

- None

Cost	➔	Congressional	
Schedule	➔	T&E	
Performance	➔	Interdependencies	

Color indicates current condition, Direction indicates future assessment



Program Description

- A Load Bank is a device which develops an electrical load and applies the load to an electrical power source and converts or dissipates the resultant power output of the source. The Load Bank is used to accurately mimic the operational or "real" load that a power source will see in actual application by providing a reliable, repeatable and fully controllable load.
- Load Bank System will fill capability gaps identified with the Army 91D Military Occupational Specialty (MOS) Power-Generation Equipment Repairer in meeting METL requirements.
- Load Banks were last issued in 1985, which makes the system 28 years old, exceeding its Economic Useful Life (EUL); manufacturing obsolescence and outdated technology exists.

AAO: 1,270 APUC: \$5.8K
 Qty Fielded: 0 Qty On Contract: 0

Recent Milestones or Events

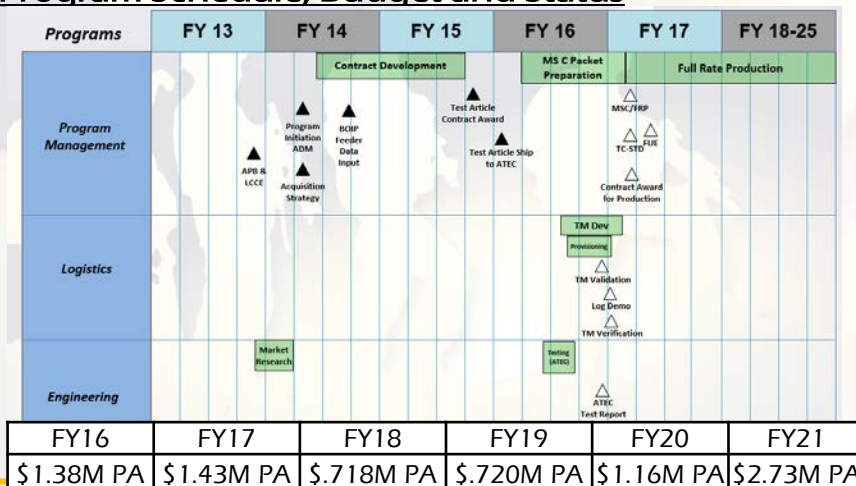
- Apr 2015: BOI approved
- Mar 2015: Solicitation Released
- Jul 2015: Contract Award
- Aug 2015: Start of Work Mtg
- Mar 2016: ATEC Testing begins
- May 2016: ATEC Testing Complete

Milestones or Events in the Next 90 Days

- Final Test Report
- Provisioning Effort
- TM Development
- Logistics Demonstration



Program Schedule, Budget and Status



Issues

- None

Cost	➡	Congressional	█
Schedule	➡	T&E	█
Performance	➡	Interdependencies	█

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Machinist's Measuring Tool Set (MMTS)

ACAT III

Unclassified: FOUO

PEO CS&CSS/PM FP/PdM SKOT

Program Description

The Machinist's Measuring Tool Set (MMTS) contains a tool load configured around the mission of the 91E (Allied Trades) Military Occupational Specialty (MOS).

The MMTS consists of 73 component parts, carried in one portable tool box. The set consists of gages, calipers, rulers, and other equipment to facilitate 91E's duties such as fabricating, repairing and modifying metallic and non-metallic parts.

The MMTS replaces:

- The Tool Kit Welders and The Tool Kit Machinist

AAO: 2449

APUC: \$5.6K

Quantity Fielded : 864

Quantity on Contract: 0

** 1474 Procured & Delivered to Depot

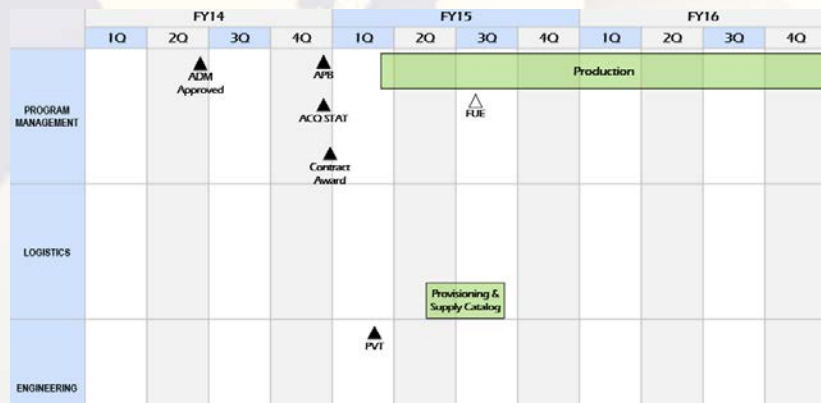
Recent Milestones or Events

- ✓ Jul 2013: Market Research completed
- ✓ Jan 2014: ADM approved
- ✓ Jun 2014: Price Concurrence
- ✓ Aug 2014: Acquisition Strategy approval
- ✓ Aug 2014: APB approval
- ✓ Sep 2014: Production Contract Award (Industries for the Blind)
- ✓ May 2015: First Unit Equipped

Milestones or Events in the Next 90 Days

- Fielding's ongoing per G8 Distribution Plan

Program Schedule, Budget and Status



FY15	FY16	FY17	FY18	FY19	FY20
\$2.8M PA	\$1.4M PA	\$1.4M PA	\$1.1M PA	\$1.1M PA	\$2.0M PA

Issues

- None



Cost	➔	Congressional	■
Schedule	➔	T&E	■
Performance	➔	Interdependencies	■

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