Future Army System of Integrated Targets (FASIT) Acquisition Program

Michael Willoughby
Product Director Future Training Solutions
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Provide Industry an overview of the FASIT Acquisition Program

Agenda

- Background

- FASIT Requirements

- FASIT Program Scope

- RFI Results

- FASIT Target Lifter TDP Contracting Plan

- Schedule

- Industry Opportunities

Background

- FASIT Capability Production Document (CPD) was prepared by TRADOC Capability Manager (TCM) Ranges and approved by Army Futures Command on 21 April 2019

- Milestone Decision Authority (MDA) delegation to PEO STRI in process

- Initiation of the FASIT program will begin upon MDA delegation and completion of a Materiel Development Decision; both anticipated to occur in FY20

- FASIT CPD is an update to the Next Generation Army Target System (NGATS) Operational Requirements Document (ORD) (11 March 1996)

- FASIT must provide the Army with standard targetry systems and architecture which includes Government Off the Shelf (GOTS) software for range operating systems

- FASIT includes the full scope of live fire targetry to include Home Station, Combined Training Centers (CTCs), and deployed locations

- The CPD strengthens sustainment requirements by establishing a 20 year Economic Useful Life (EUL) requirement and requiring target lifter spares and replacement parts to be <u>provisioned through the Army Supply System for the 20 year EUL</u>

- FASIT will subsume the follow three targetry programs
    - Target Modernization, executed by PM Soldier Training
        - Modernize Targetry though S&T investment
        - Manage TRACR
        - Manage FASIT Interface Control Document and standards
        - Lifecycle management of LOMAH
    - Army Targetry System (ATS), executed by TACOM
        - Procure and field SITs, SATs, MITs, MATs, range operating systems and ancillary devices to non-digital ranges
        - Manage spare parts and services contracts for fielded systems
    - CTC Live Fire (LF), executed by PM Soldier Training
        - Procure and field SITs, SATs, MITs, MATs and ancillary devices to Combat Training Centers
        - Procure and field Battlefield Effects Simulators (BES)
- FASIT will also assume lifecycle management responsibility for targets on DRTS ranges

FASIT Army Acquisition Objective (AAO)

- FASIT AAO = Basis of Issue = Targetry for 659 ranges
  - <u>Includes</u>:
    - \# Ranges validated by TCM Ranges
    - Homestation instrumented/DRTS ranges
    - CTC LF Targetry
    - Udairi Range Complex
    - Deployable Range Packages
  - <u>Does not include:</u>
    - DRTS IPURs, RF network, etc
    - Shoot House bullet traps
    - Aerial Targets
    - Aerial Weapons Scoring System

- FASIT BOI
  - New/Future Ranges   97
  - Recapitalize existing ranges   <u>562</u>
  - Total Ranges   659

- Includes the following components

Component	Count		Component	Count
Stationary Armor Targets (SATs):	7,315	-	BES:	8,335
Stationary Infantry Targets (SITs):	60,848	-	LOMAH:	116
Moving Armor Targets (MATs):	636	-	Sound Effects Sim:	971
Moving Infantry Targets (MITs):	5,668	-	Human Type Target:	3,080
Steel Targets:	2,980	-	External Cameras:	TBD
Trackless Moving Targets – Infantry	TBD			
Trackless Moving Targets – Vehicle	TBD			

FASIT Scope

- Since FASIT combines three ongoing programs, much of the FASIT program will be a continuation of Target Mod, CTC LF, and ATS

- New work as a result of the FASIT sustainment requirements
    - Sustain targets for 20 years
    - Provision spares into the Army Supply System

- Request for Information (RFI) released to ask for Industry feedback on the FASIT sustainment requirements

Request For Information (RFI)

- Initial Release May 2019
  - The Army desires insights and feedback from the target vendor community on how they believe that a 20 year life cycle management schema could be structured to ensure spare and replacement parts are available and target lifters that can be repaired by Army personnel for the entire 20 year target lifespan
  - Feedback is desired on sustainment approaches for future procurements vice legacy systems.
  - The Army is also contemplating the development of a Government Owned Technical Data Package (TDP) (both hardware and firmware) as a means to fulfill the sustainment and supply requirements.
  - Provide alternate approach vice GOVT TDP that allows 20 year life cycle

- Follow-up RFI Released July 2019

RFI Response Synopsis

- Six vendors responded to the two RFIs posted
- Three vendors didn't address:
  - 20 year life cycle management sustainment plan
  - Sustainment approach for future target purchases
  - Pro or Con for Government TDP
- Two vendors recommended:
  - Status quo for sustainment plan
  - Govt TDP ownership for some target components or systems
  - Continue with commercial purchases
- One vendor recommended:
  - Govt TDP for target lifter
  - Establish a web based contractor source for sustainment spare/repair parts

- <u>Conclusion</u>: Industry did not identify or propose an alternate approach to enable the PM to meet the FASIT sustainment requirements

- Therefore, upon initiation of the FASIT program, PM Soldier Training will develop a Government owned TDP for MITs, MATs, SITs, and SATs
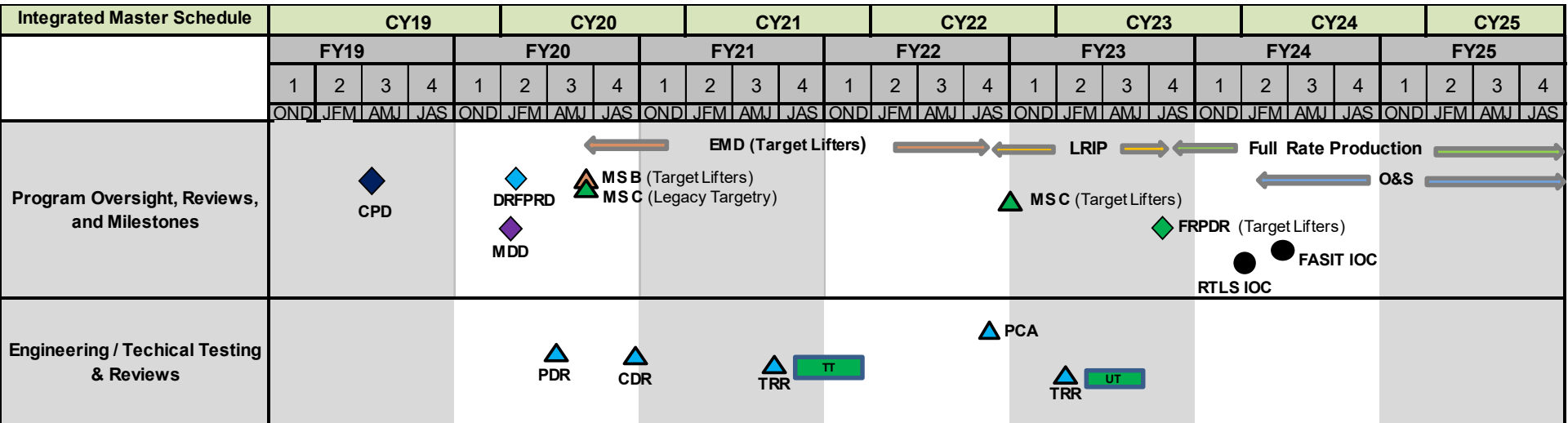
- <u>Contract</u>: Life Cycle Product-line Management (LCPM)
- <u>Delivery Order Title</u>: FASIT TDP Development
  - Expected Award: Spring 2020, subject to Continuing Resolution
  - Create New FASIT Target Lifter Design and Develop the Technical Data Package
  - Perform First Article Testing
  - Contract Complete 12/31/2021

- <u>Contract</u>: LCPM
- <u>Delivery Order Title</u>: FASIT Limited Rate Initial Production (LRIP)
  - Expected Award: 1/1/2022
  - Develop Manufacturing Processes for TDP
  - Low Rate Initial Production of New FASIT Design, fulfill FASIT IOC Requirements
  - Contract Complete 12/30/2023

- <u>Contract</u>: New Multi-Award IDIQ Contract
- <u>Title</u>: FASIT Full Rate Production
  - Expected Award: 1/1/2024
  - Full Rate Production using new FASIT Manufacturing TDP
  - New Ranges and Recapitalized ranges
  - Contract Complete 6/1/2032

- <u>Contract</u>: LCPM follow-on / TBD
- <u>DO Title</u>: FASIT TDP Management
  - Expected Award: 1/1/2024
  - Manage & update TDP to address obsolescence, performance, reliability, and sustainment needs
  - Contract Complete: TBD

Abbreviated FASIT Schedule

Integrated Master Schedule	CY19				CY20				CY21				CY22				CY23				CY24				CY25			
	FY19				FY20				FY21				FY22				FY23				FY24				FY25			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS	OND	JFM	AMJ	JAS

Program Oversight, Reviews, and Milestones:
- CPD
- DRFPRD
- MDD
- EMD (Target Lifters)
- MS B (Target Lifters)
- MS C (Legacy Targetry)
- LRIP
- MS C (Target Lifters)
- Full Rate Production
- FRPDR (Target Lifters)
- RTLS IOC
- FASIT IOC
- O&S

Engineering / Techical Testing & Reviews:
- PDR
- CDR
- TRR
- TT
- PCA
- TRR
- UT

- FASIT TDP Development

- FASIT Full Rate Production Contract
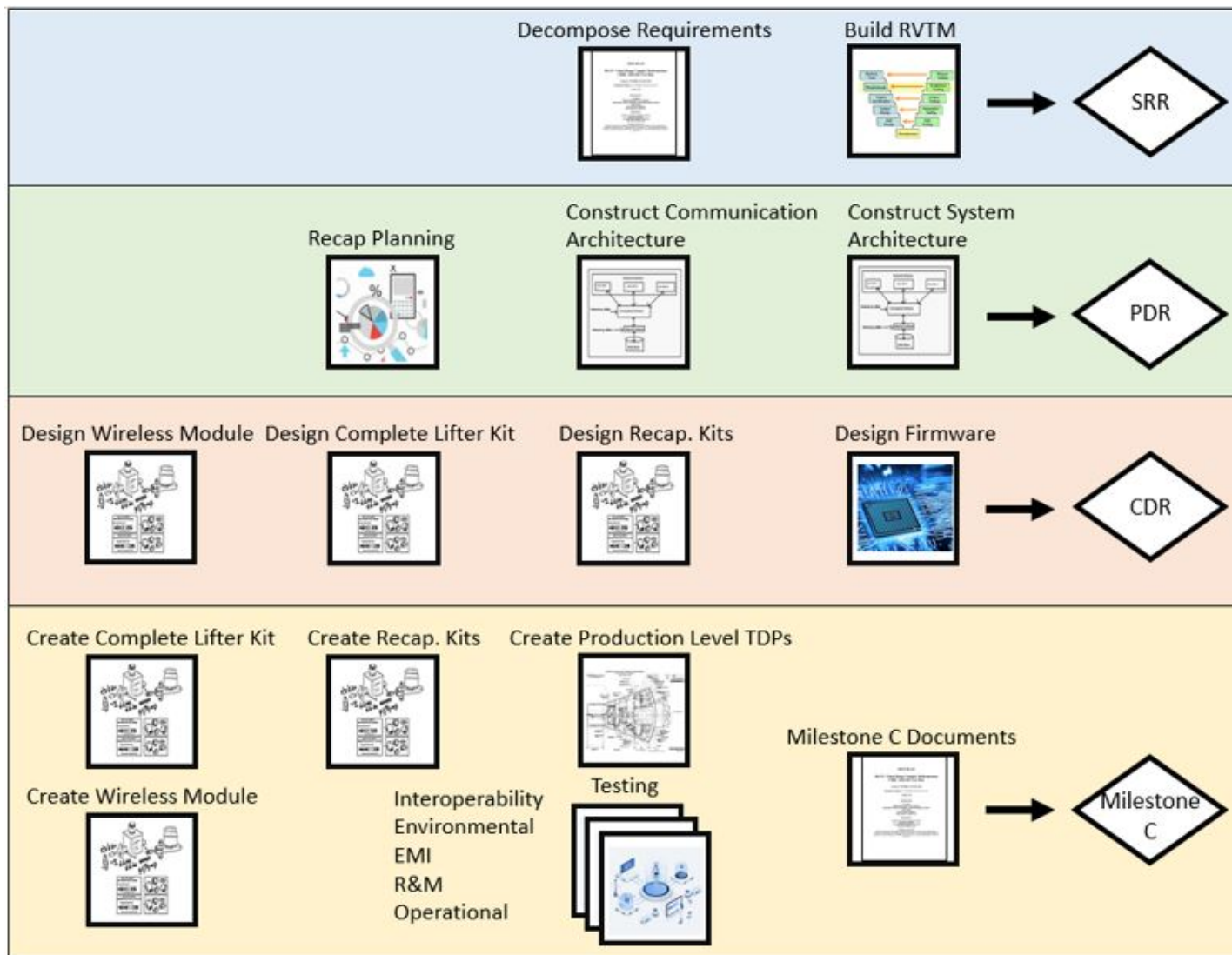
- Combat ID silhouette SBIR

FASIT TDP Development

- TDP development will include traditional design milestones:
  - SRR: Complete legacy target data gathering and requirements development
  - PDR: Requirements allocated to the preliminary design & design is executable
  - CDR: baseline the target (SIT, SAT, MIT, MAT) designs
- Key design goal is to minimize sustainment cost through use of common components across four target types
- Government will invite industry partners to review developing requirements and design as part of completing each program milestone
- Government will address all industry comments submitted in response to each milestone data release

FASIT TDP Development Scope

System Requirements Review – ensure rqmts are identified and agreed to between Govt and contractor.

Preliminary Design Review – ensure all rqmts have been allocated to a system and the prelim design is executable.

Critical Design Review – ensure the detailed system design meets the rqmts. Govt owns the design at this review.

Milestone C – seek approval from the MDA (the PEO) to enter into LRIP and production.

** At the end of each development phase release the design data/elements developed to industry partners for their feedback.

FASIT Full Rate Production Contract

- Anticipated Contract Type: Multi-award IDIQ

- Expected Award: 1/1/2024

- Period of Performance: 2024 to 2032

- Next Event: RFI in 2021

- Scope: Utilize target TDPs, FASIT specification and Interface Control Documents (ICDs), GOTS software:
    - Recapitalize existing targets
    - Build new targets
    - Acquire IT equipment, cameras and other ancillary equipment
    - Install, integrate and test range systems
    - Conduct New Equipment Training
    - Deliver initial spares

Combat Identification Silhouette

- Small Business Innovative Research (SBIR) Contract
- SBIR opportunities posted on the SBIR/STTC Portal (SBIR.defensebusiness.org)
- Combat ID Silhouette draft topic release in Dec of 2020
- Topic Description: Research solutions to support full spectrum reflectivity and IR emission for live fire target silhouettes to replicate real-world signatures to support training utilizing all available sensors and tactical solutions. Focus on realism, durability, and cost.
- Final Topic Released Jan 2021
- Proposals due in Feb 2021, see SBIR Portal for exact dates

Questions?