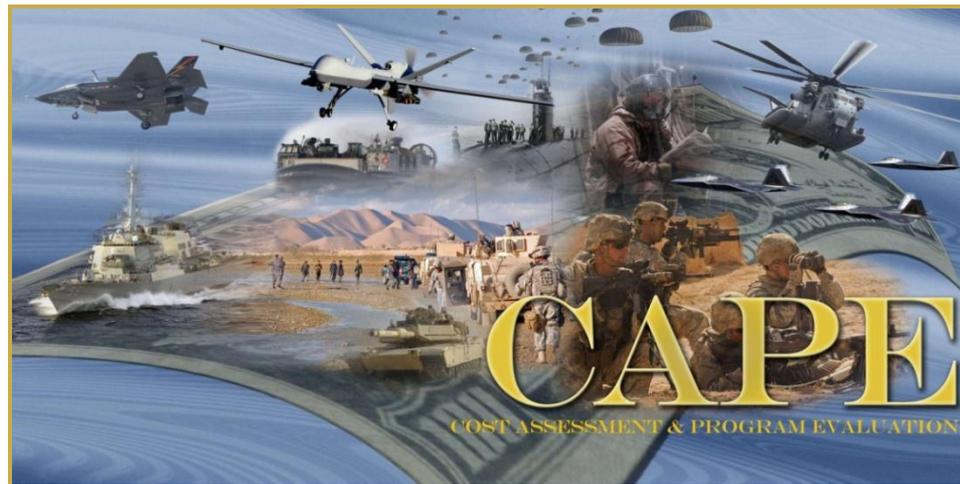


Cost and Software Data Reporting Training

Sustainment Reporting



October 16, 2012



Why Sustainment Reporting?

OSD CAPE

- The 2008 update of DODI 5000.02 mandates that reports of sustainment contractors' costs be collected within the CSDR system
- WSARA 2009 – reiterates mandated O&S reporting for MDAPs
 - Section 304 of the Act:
 - Identify the original O&S cost estimates for selected MDAPS
 - Assess the actual O&S costs, the rate of growth and the cost drivers
 - Cannot be done without visibility into Contractor Sustainment
- Requirement for annual CAPE report to Congress on O&S costs
- Language in 2012 Defense Appropriation Bill



Why 1921-4?

OSD CAPE

- Existing sustainment 1921s are a variety of data reporting structures
 - MIL-HDBK-881A based
 - O&S data reporting structure based
 - Combination
- Attempted to add sustainment appendix to MIL-STD-881C, but it was not included in final version.
- CAPE O&S Estimating Guide currently in revision
- 1921-4 is a means of obtaining sustainment data in a consistent format.



Initial Implementation Assumptions (subject to change)

OSD CAPE

- Current threshold \$50M; may be revised upward as needed
- Applicable to all new contracts or contract mods
- Not intended to be applied retroactively (future, not historical, data)
- Variants, major FMS sales reported separately
- Program Office has option to use both 1921 and 1921-4
 - 881C data reporting structure mapped as children under 1921-4 data reporting structure
- cPet software update in process; cPet compatible template will be used until new software rolled out.



1921-4 Form

OSD CAPE

SECURITY CLASSIFICATION: Unclassified

CONTRACTOR SUSTAINMENT REPORT

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate, Information Management Division, 4800 Mark Center Drive, Alexandria, VA 22350-3100 (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-LRIP <input type="checkbox"/> C-FRP <input type="checkbox"/> O&S		2. PRIME MISSION PRODUCT	3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT	4. NAME/ADDRESS (Include Zip Code) a. PERFORMING ORGANIZATION b. DIVISION		5. APPROVED PLAN NUMBER
6. CUSTOMER (Direct-Reporting Subcontractor Use Only)			7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION		c. SOLICITATION NO.: d. NAME:	
8. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):		9. REPORT CYCLE <input type="checkbox"/> INITIAL <input type="checkbox"/> INTERIM <input type="checkbox"/> FINAL		10. SUBMISSION NUMBER	11. RESUBMISSION NUMBER	
12. REPORT AS OF (YYYYMMDD)		13. NAME (Last, First, Middle Initial)		14. DEPARTMENT	15. TELEPHONE NO. (Include Area Code)	
16. EMAIL ADDRESS		17. DATE PREPARED (YYYYMMDD)		18. WBS ELEMENT CODE		
19. WBS REPORTING ELEMENT		20. QUANTITY OR TECHNICAL METRIC <input type="checkbox"/> QUANTITY a. TO DATE <input type="checkbox"/> TECHNICAL METRIC (Specify in Remarks) b. AT COMPLETION		21. APPROPRIATION <input type="checkbox"/> RD&E <input type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M		

	COST INCURRED TO DATE (thousands of U.S. Dollars)			COST INCURRED AT COMPLETION (thousands of U.S. Dollars)			G. ELEMENT QUANTITY OR TECHNICAL METRIC
	A. NONRECURRING	B. RECURRING	C. TOTAL	D. NONRECURRING	E. RECURRING	F. TOTAL	
(1) 1.0 UNIT-LEVEL MANPOWER (SYSTEM LEVEL COST ONLY)							
(2) 1.1 OPERATIONS MANPOWER							
(3) 1.2 UNIT-LEVEL MAINTENANCE MANPOWER							
(4) 1.3 OTHER UNIT-LEVEL MANPOWER (Specify in Remarks)							
(5) 2.0 UNIT OPERATIONS (SYSTEM LEVEL COST ONLY)							
(6) 2.1 OPERATING MATERIAL							
(7) 2.1.1 ENERGY (Fuel; Petroleum, Oil, and Lubricants (POL); Electricity)							
(8) 2.1.2 TRAINING MUNITIONS/EXPENDABLE STORES							
(9) 2.1.3 OTHER OPERATING MATERIAL (Specify in Remarks)							
(10) 2.2 SUPPORT SERVICES (INCLUDING NON-MAINTENANCE FSRs)							
(11) 2.3 TEMPORARY DUTY							
(12) 3.0 MAINTENANCE							
(13) 3.1 OVERHAUL OF END ITEMS							
(14) 3.1.1 SCHEDULED OVERHAUL							
(15) 3.1.1.1 VEHICLE/PLATFORM OVERHAUL							
(16) 3.1.1.2 PROPULSION OVERHAUL							
(17) 3.1.1.3 OTHER OVERHAUL							
(18) 3.1.2 UNSCHEDULED OVERHAUL							
(19) 3.1.2.1 VEHICLE/PLATFORM OVERHAUL							
(20) 3.1.2.2 PROPULSION OVERHAUL							
(21) 3.1.2.3 OTHER OVERHAUL							
(22) 3.2 DEPOT LEVEL REPARABLES (DLR) / REPAIR OF REPARABLES (ROR)							
(23) 3.3 CONSUMABLES AND REPAIR PARTS							
(24) 3.4 OTHER MAINTENANCE SERVICES (INCLUDING FSRs) (Specify in Remarks)							
(25) 3.4.1 O-LEVEL MAINTENANCE SERVICES							
(26) 3.4.2 I-LEVEL MAINTENANCE SERVICES							
(27) 3.4.3 DEPOT LEVEL MAINTENANCE SERVICES							

Metadata
(Blocks 1-19, 21)

Quantity or
Technical
Metric
-to Date
-at Completion
(Block 20)

Costs Incurred
to Date
(Blocks A – C)

Costs Incurred
at Completion
(Blocks D – F)

Element Quantity
or Technical
Metric (Block G)



1921-4 Form (Cont.)

OSD CAPE

(28) 3.5 PACKING, HANDLING, SHIPPING, AND TRANSPORTATION (PHS&T)								
(29) 4.0 SUSTAINING SUPPORT (SYSTEM LEVEL COST ONLY)								
(30) 4.1 SYSTEM SPECIFIC TRAINING								
(31) 4.1.1 OPERATOR TRAINING								
(32) 4.1.2 MAINTENANCE TRAINING								
(33) 4.1.3 OTHER TRAINING (Specify in Remarks)								
(34) 4.2 SUPPORT EQUIPMENT REPLACEMENT								
(35) 4.3 SUSTAINING/SYSTEMS ENGINEERING								
(36) 4.3.1 RELIABILITY AND MAINTAINABILITY ENGINEERING								
(37) 4.3.2 LOGISTICS ENGINEERING (LSA updates, logistics analysis)								
(38) 4.3.3 SUPPLY ANALYSIS EFFORTS								
(39) 4.3.4 SAFETY/HUMAN SYSTEMS INTEGRATION ENGINEERING								
(40) 4.3.5 AFFORDABILITY ENGINEERING								
(41) 4.3.6 OBSOLESCENCE ENGINEERING								
(42) 4.3.7 AVAILABILITY MANAGEMENT								
(43) 4.3.8 PRODUCT ENGINEERING SUPPORT								
(44) 4.3.9 INFORMATION ASSURANCE								
(45) 4.3.10 CONFIGURATION MANAGEMENT								
(46) 4.3.11 SYSTEM PERFORMANCE ANALYSIS								
(47) 4.3.12 SUPPLY								
(48) 4.3.13 DATA ANALYSIS								
(49) 4.3.14 PHYSICAL SECURITY								
(50) 4.4 PROGRAM MANAGEMENT								
(51) 4.4.1 CONTRACTOR LOGISTICS SUPPORT (CLS) MANAGEMENT								
(52) 4.4.2 CLS SUPPLY MANAGEMENT								
(53) 4.4.3 FINANCIAL/SCHEDULE PLANNING AND REPORTING								
(54) 4.4.4 TRANSITION TO LEAD SERVICE								
(55) 4.4.5 QUALITY ASSURANCE (Program Level)								
(56) 4.4.6 ADMINISTRATIVE SECURITY								
(57) 4.4.7 TRANSITION TO PERFORMANCE BASED LOGISTICS (PBL)								
(58) 4.4.8 RISK MITIGATION								
(59) 4.5 INFORMATION SYSTEMS								
(60) 4.5.1 TECH REFRESH								
(61) 4.5.2 LICENSE FEES								
(62) 4.5.3 MAINTENANCE								
(63) 4.6 DATA AND TECHNICAL PUBLICATIONS								
(64) 4.7 SIMULATOR OPERATIONS								
(65) 4.7.1 SIMULATOR OPERATIONS HARDWARE SUPPORT								
(66) 4.7.2 SIMULATOR OPERATIONS MANPOWER								
(67) 4.7.3 SIMULATOR TECH REFRESH								
(68) 4.8 OTHER SUSTAINING SUPPORT (Specify in Remarks)								
(69) 5.0 CONTINUING SYSTEM IMPROVEMENTS								
(70) 5.1 HARDWARE MODIFICATIONS OR MODERNIZATION								
(71) 5.1.1 MOD KIT DEVELOPMENT								
(72) 5.1.2 MOD KIT PROCUREMENT								
(73) 5.1.3 MOD KIT INITIAL SPARES								
(74) 5.1.4 MOD KIT INSTALLATION								
(75) 5.2 SOFTWARE MAINTENANCE OR MODIFICATION								
(76) 6.0 INSTALLATION AND PERSONNEL SUPPORT (SYSTEM LEVEL COST ONLY)								
(77) SUMMARY								
(78) TOTAL COST (Direct and Overhead)								
22. Remarks								

DD FORM 1921-4 APR 2012

SECURITY CLASSIFICATION

Unclassified

Remarks
(Block 22)



Adding Additional Detail to 1921-4

OSD CAPE

- Optional: MIL-STD-881C can be used as structure to add additional detail
- Would simplify mapping from 1921 (if used), which is based on MIL-STD-881C
- Software should be included in 1921-4 Element 5.2

Items from MIL-STD-881C shaded in the following slides have retained their original index numbers to show their origin

In the 1921-4 plan, inserted child elements would align with 1921-4 numbering



Adding Additional Detail to 1921-4 Aircraft Example – Appendix A

OSD CAPE

	3.0 MAINTENANCE
	3.1 OVERHAUL OF END ITEMS
	3.1.1 SCHEDULED OVERHAUL
	3.1.1.1 VEHICLE/PLATFORM OVERHAUL
	1.1.1 Airframe
	1.1.3 Vehicle Subsystems
	1.1.4 Avionics
	1.1.5 Armament/Weapons Delivery
	1.1.6 Auxilliary Equipment
	1.1.7 Furnishings and Equipment
	1.1.9 Air Vehicle Integration, Assembly, Test and Checkout
Maps to 1.1.2 Propulsion	3.1.1.2 PROPULSION OVERHAUL
	3.1.1.3 OTHER OVERHAUL
	3.1.2 UNSCHEDULED OVERHAUL
	3.1.2.1 VEHICLE/PLATFORM OVERHAUL
	1.1.1 Airframe
	1.1.3 Vehicle Subsystems
	1.1.4 Avionics
	1.1.5 Armament/Weapons Delivery
	1.1.6 Auxilliary Equipment
	1.1.7 Furnishings and Equipment
	1.1.9 Air Vehicle Integration, Assembly, Test and Checkout
Maps to 1.1.2 Propulsion	3.1.2.2 PROPULSION OVERHAUL
	3.1.2.3 OTHER OVERHAUL



Adding Additional Detail to 1921-4 Aircraft Example – Appendix A

OSD CAPE

	3.2 DEPOT LEVEL REPARABLES (DLR) / REPAIR OF REPARABLES (ROR)
	Various Rows from 1921
Maps to 1.1.11 Spares and Repair Parts	3.3 CONSUMABLES AND REPAIR PARTS
	3.4 OTHER MAINTENANCE SERVICES (INCLUDING FSRs) (Specify in Remarks)
	3.4.1 O-LEVEL MAINTENANCE SERVICES
	3.4.2 I-LEVEL MAINTENANCE SERVICES
	3.4.3 DEPOT LEVEL MAINTENANCE SERVICES
	3.5 PACKING, HANDLING, SHIPPING, AND TRANSPORTATION (PHS&T)
	4.0 SUSTAINING SUPPORT (SYSTEM LEVEL COST ONLY)
Maps to 1.5 Training	4.1 SYSTEM SPECIFIC TRAINING
	4.1.1 OPERATOR TRAINING
	4.1.2 MAINTENANCE TRAINING
	4.1.3 OTHER TRAINING (Specify in Remarks)
	4.2 SUPPORT EQUIPMENT REPLACEMENT
	1.7 Peculiar Support Equipment
	1.8 Common Support Equipment
Maps to 1.2 Systems Engineering	4.3 SUSTAINING/SYSTEMS ENGINEERING
Maps to 1.3 Program Management	4.4 PROGRAM MANAGEMENT



Adding Additional Detail to 1921-4 Aircraft Example – Appendix A

OSD CAPE

	4.5 INFORMATION SYSTEMS
	4.5.1 TECH REFRESH
	4.5.2 LICENSE FEES
	4.5.3 MAINTENANCE
Maps to 1.6 Data	4.6 DATA AND TECHNICAL PUBLICATIONS
	4.7 SIMULATOR OPERATIONS
	4.7.1 SIMULATOR OPERATIONS HARDWARE SUPPORT
	4.7.2 SIMULATOR OPERATIONS MANPOWER
	4.7.3 SIMULATOR TECH REFRESH
	4.8 OTHER SUSTAINING SUPPORT (Specify in Remarks)
	5.0 CONTINUING SYSTEM IMPROVEMENTS
	5.1 HARDWARE MODIFICATIONS OR MODERNIZATION
	5.1.1 MOD KIT DEVELOPMENT
	5.1.2 MOD KIT PROCUREMENT
	5.1.3 MOD KIT INITIAL SPARES
	5.1.4 MOD KIT INSTALLATION
	5.2 SOFTWARE MAINTENANCE OR MODIFICATION
	1.1.8 Air Vehicle Software Release 1...n
	6.0 INSTALLATION AND PERSONNEL SUPPORT (SYSTEM LEVEL COST ONLY)
	1.9 Operational/Site Activation
	1.10 Industrial Facilities
	SUMMARY
	TOTAL COST (<i>Direct and Overhead</i>)



New 1921-4 Plans in Process

OSD CAPE

Program	Data Reporting Structure Format	1921-4	Subcontracts
C-17 Follow On	1921 O&S Format	In negotiations	Engines (?)
C-130J	1921-4	In negotiations	Engines (?)
F/A 18 E/F Follow On	1921 O&S Format	2014	Engines
F-22 Follow On	1921-4	In negotiations	Engines
Global Hawk	1921-4	In negotiations	TBD
Javelin	1921-4	In negotiations	Yes
MILSATCOM	Pre-RFP	Planned	TBD
USMC MVTR	1921-4	Yes	No
SBIRS	Pre-RFP	Planned	TBD
T-45 Trainers	881C Appendix A	Yes	TBD
V-22 Flight Test Sust/NVIA	1921-4	Yes	No

- 1921-4 Form was approved on April 1, 2012 and is now official and mandatory
- Insertion Point is either Major Contract Mod or New Contract