MODIFICATION PROPOSAL

PART I - REQUEST FOR ACTION DATE: 20200325

1. INITIATOR	2. INITIATOR'S POC ORGANIZATION	3. USING COMMAND HQ POINT OF CONTACT
Mr. Franklin Smyth AMC/A3TR Scott AFB, IL 62225 DSN 779-2496	AMC Aircrew Operations & Training AMC/A3TR 402 Scott Drive Unit 3A1 Scott AFB, IL 6225	Mr. Franklin Smyth AMC/A3TR Scott AFB, IL 62225 DSN 779-2496

4. TITLE:
MAF Common Training Platform (MCTP) Study

5. ORGANIZATION CONTROL NUMBER	6. OTHER NUMBERS
20-206T	

7. AFFECTED CONFIGURED ITEM/SYSTEM:

A. MDS/TMS/CEIL/CPIN	B. WUC	C. NSN
C-5, C-17, KC-46, C-130H, C-130J, KC-135		
D. SRD CODE	**E. NOUN**	**F. OTHER**

8. PURPOSE *(State the need or deficiency to be corrected. Include expected results)*
Produce a study defining a full motion MAF Common Training Platform (MCTP) and its sub-systems for the C-5, C-17, KC-46, C-130H, C-130J, KC-135, Aircrew Training Systems (ATS) that maximizes operational training, sustainment, and cost benefits and outlines what those benefits are:
• Define the MCTP and it's sub-systems in terms that would inform the Joint Capability Integration & Development System (JCIDS) Process - Capabilities-Based Assessment (CBA); Initial Capability Document (ICD); Key Performance Parameters (KPPs); Key System Attributes (KSAs)
• Define the MCTP and it's sub-systems in terms that would inform the Acquisition Process: Table of Performance Parameters / Attributes (TOPPA)
• Cost Benefit / Capability Gap Analysis: Replacing MAF full motion simulator with MCTP by Weapon System ATS and/or Replacing MAF full motion simulator sub-systems with MCTP sub-systems by Weapon System ATS (Define: Cost / Schedule / Performance Parameters)

9. IMPACT *(Urgency of need and impact if not satisfied)*
PROBLEM STATEMENT: The Mobility Air Force (MAF) is being tasked to operate in an ever increasing and evolving threat environment that requires cross Service and Joint training only achievable through the Live, Virtual, Constructive (LVC) Distributive Mission Operation (DMO) training environment. The MAF's aging simulator fleet was never designed to function in this environment leading to mission critical capability gaps: network interoperability, classified data management, and cybersecurity Authority to Operate (ATO) requirements. These gaps coupled with non-standardized stovepipe systems, proprietary parts / data, cumbersome calibration, certification and upgrade processes leads to a Mobility Aircrew Training System (ATS) that is inefficient, expensive, non-responsive and increasingly incapable of meeting MAF training requirements. Mobility requires a common full motion training platform that maximizes operational training, sustainment, and cost benefits to meet Full Spectrum Readiness (FSR) and aircrew production training requirements.
IMPACT: If not addressed, the MAF will under-train, under-produce, and over-spend with regards to FSR, pilot production, and flying hour cost avoidance. The MCTP Study must be complete NLT 1 July 2021.

10. CONSTRAINTS/ASSUMPTIONS/PROPOSED SOLUTIONS
Vision: A MCTP study that will enable informed decisions (JCIDS & Acquisition friendly) in replacing simulators or sub-systems providing MAF the capability to conduct required LVC DMO training today and into the future at the "Best Bang for the Buck."
• Leverage Best Practices from Commercial, Air Force, Sister Services, and Allies
• Legacy Sub-Systems Upgradeable and Compatible with MCTP Sub-Systems
• Modular Open Systems Approach (MOSA) / Government Owned Contractor Operated (GOCO)
• Standardize MAF full motion simulators across all ATSs to the maximum extent possible: Host Computer Systems / Visual Systems / Threat Systems / Databases / Aero Model / Motion Systems / Facility Requirements
• Enhance (Cheaper, Faster, Better): Concurrency / Fidelity / Connectivity / Interoperability / Cybersecurity / Sustainability / Self-Monitoring / Self-Reporting / Self-Forecasting / Ability for MCTP Operators to Remotely Monitor, Operate, and Instruct
• Consistent / Compatible w/: Simulator Common Architecture Requirements and Standards (SCARS) / Common Synthetic Training Environment (CSTE) / HAF Operational Training Infrastructure (OTI) 2035 Flight Plan / Sim-Div Strategic Communications Plan

11. ORGANIZATION VALIDATION DATE RECEIVED: 20191009

☒ A. PROPOSED REQUEST IS VALIDATED AS AN ORGANIZATION NEED/REQUIREMENT WHICH REQUIRES ACTION.

☐ B. PROPOSED REQUEST IS DISAPPROVED AND IS NOT AN ORGANIZATION NEED/REQUIREMENT WHICH REQUIRES ACTION.

☐ C. PROPOSED REQUEST IS RETURNED TO SUBMITTER FOR ADDITIONAL INFORMATION.

D. DATE	E. NAME, GRADE, TITLE, and DSN *(Type or Print)*	F. SIGNATURE
20200325	Franklin W. Smyth, GS-13,USAF AMC A3TR 618-229-2496	SMYTH FRANKLIN W 1102096084 Digitally signed by SMYTH.FRANKLIN.W.1102096084 Date: 2020.03.25 11:59:21 -05'00'

PART II - USING COMMAND VALIDATION | DATE RECEIVED: 20200325

12. USING COMMAND VALIDATION

☒ A. PROPOSED REQUEST IS VALIDATED AS AN ORGANIZATION NEED/REQUIREMENT WHICH REQUIRES ACTION.

☐ B. PROPOSED REQUEST IS DISAPPROVED AND IS NOT AN ORGANIZATION NEED/REQUIREMENT WHICH REQUIRES ACTION.

☐ C. PROPOSED REQUEST IS RETURNED TO SUBMITTER FOR ADDITIONAL INFORMATION.

☐ D. FORWARD TO LEAD COMMAND | E. USING COMMAND CONTROL NO.

F. DATE	G. NAME, GRADE, TITLE, and DSN *(Type or Print)*	H. SIGNATURE
20200326	Anastacio A. Lambaria, GS-14 Dep Ch, Requirements Division, 779-2919	LAMBARIA ANASTACIO A 1124772490 Digitally signed by LAMBARIA.ANASTACIO.A.1124772490 Date: 2020.03.26 15:26:20 -05'00'

PART III - LEAD COMMAND VALIDATION | DATE RECEIVED:

13. LEAD COMMAND ACTION OFFICER	14. THRU *(Optional Routing)*	15. SINGLE MANAGER OFFICE
RYAN AERNI, Colonel ,USAF AMC Operations and Training Division		

16. MODIFICATION TYPE ☐ T-1 ☐ T-2 ☐ PERMANENT (P) ☐ P(S)-SAFETY | 17. LEAD COMMAND CONTROL NO. 20-206T

18. LEAD COMMAND REMARKS *(Identify any constraints or assumptions)*

See attached "MAF Common Training Platform Study Details Document" for information regarding examples and current challenges. Additionally, see the following attached supporting documents: Tab 1 - SCARS Objectives / Tab 2 - CSTE Framework with Detailed Requirements / Tab 3 - HAF OTI 2035 Flight Plan / Tab 4 - Simulators Division Strategic Communications Plan / Tab 5 - JCIDS Instruction Guide / Tab 6 - Synthetic Training Sync CSAF 062919 / Tab 7 - Example of TOPPA Attached to 1067 16-021

19. LEAD COMMAND VALIDATION

☒ A. VALIDATED REQUEST ☐ B. DISAPPROVED

20. NAME, GRADE, TITLE, AND DSN *(Type or Print)*	21. SIGNATURE	22. DATE
Timothy A. Mach, Lt Col, USAF Ch, Requirements Division, 779-2919	MACH.TIMOTHY.A.1079391324 Digitally signed by MACH.TIMOTHY.A.1079391324 Date 2020.03.26 16 17 34 -05 00'	20200326

PART IV - SINGLE MANAGER REVIEW AND APPROVAL | DATE RECEIVED:

23. SM ACTION OFFICER	24. CENTER CONTROL NUMBERS	25. TOTAL BP/EEIC:			
Lt Col Stacy Baber AFMC AFLCMC/WNSM DSN 785-2272	A. CENTER MIP NO:	Type Funds	Amount	Type Funds	Amount
	B. ECP NO:	3400	[redacted]		
	C. TCTO NO:				

26. NR OF CIS AFFECTED: | 27. TOTAL KITS NEEDED:

28. ALSO AFFECTS: ☐ SUPPORT EQUIP ☒ AIRCREW TRAINING ☒ TRAINING DEVICES/VISUAL AIDS *(Maint)* ☒ TECH DATA

☐ SPARES ☐ SOFTWARE ☐ OTHER *(Identify)*

29. KIT OR UNIT COST	30. TOTAL COST	31. LEAD TIME	32. INSTALLATION *(Begin)* *(Completed)*
	[redacted]		

33. LEVEL OF ACCOMPLISHMENT. ☐ USER ☐ DEPOT ☐ BOTH ☐ OTHER

34. USER WORK HOURS	35. DEPOT WORK HOURS:	36. TOTAL WORK HOURS:

37. MANUFACTURER: KBR | 38. AIRCRAFT BREAKOUT:

39. ENGINEERING REVIEW RECOMMENDATION*(S)*

As part of this study, KBR will provide the deliverables listed in the TDL document that address the MAF Simulator Standard Study requirements.

☒ APPROVED ☐ DISAPPROVED *(See attached remarks)*

40. NAME, GRADE, TITLE, AND DSN *(Type or Print)*	41. SIGNATURE	42. DATE
JOHN KURIAN, Col, USAF Senior Materiel Leader, Simulators Program Office	KURIAN.JOHN.1089656539 Digitally signed by KURIAN JOHN 1089656539 Date: 2020 07 28 14:52:33 -04'00'	

PART V - LEAD COMMAND CERTIFICATION/APPROVAL

☐ TEMPORARY MOD APPROVED ☐ PERMANENT MOD APPROVED *(Proceed to Budgeting)*

☐ MOD DISAPPROVED ☐ MNS/ORD TO BE DEVELOPED

43. NAME, GRADE, TITLE, AND DSN *(Type or Print)*	44. SIGNATURE	45. DATE
RYAN AERNI, Colonel, USAF AMC Operations and Training Division	AERNI.RYAN.J.1148198370 Digitally signed by AERNI RYAN J 1148198370 Date: 2020 07 29 08:30:56 -05'00'	20200729