



U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT COMMAND – AVIATION & MISSILE CENTER

Aviation and Missile Command (AMCOM) Policy 070-062 -

U.S. Army Aviation Policy for Advanced Manufactured Aircraft

Parts, Components and Support Products

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DISTRIBUTION STATEMENT A. Approved
for public release; distribution is
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TOPICS



- **What it is**
- **Why it is needed**
- **What it does**
- **Method to construction**
- **Vision**
- **Questions**
- **Contact Info**



WHAT IT IS



- **This policy provides guidance to the U.S. Army Aviation Enterprise Stakeholders regarding Advanced Manufacturing (AdvM)**
 - Army Units
 - Defense Logistics Agency
 - Program Executive Office Aviation
 - OEMs
 - AMCOM
 - CCDC AvMC
- **Constructed at request of MG Royar, AMCOM CG**



WHY IT IS NEEDED



- AdvM, specifically additive, is available to the masses
- Fielded Units looking to AdvM for quick repairs and tools
- Needed to ensure airworthiness



Bathtub Fitting Check



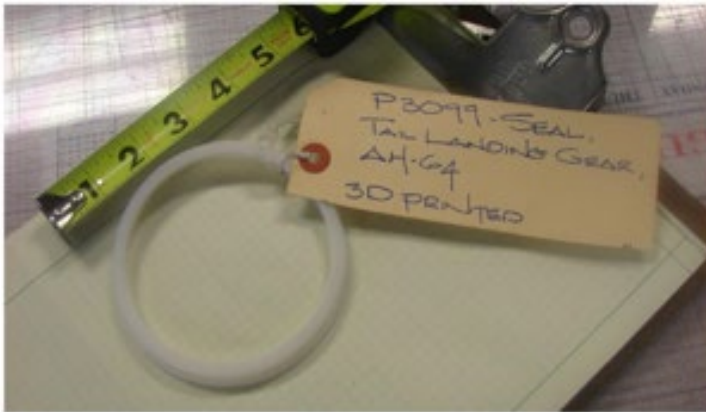
Engine Bolt Tool



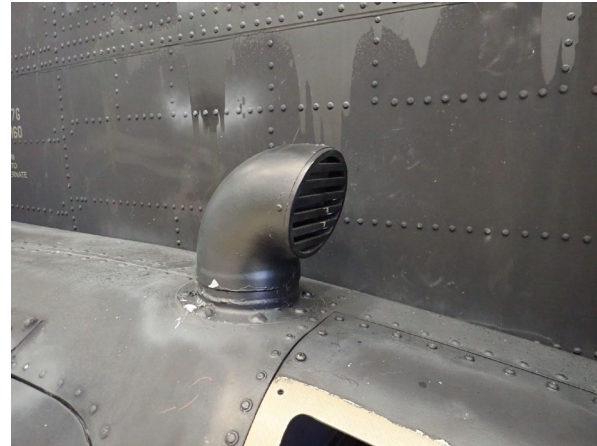
WHAT IT DOES



- Provides direct POCs for AdvM approval
- Provides categorization for AdvM parts for aviation
- Provides types of information requested by the Engineering Support Activity to approve AdvM parts
- Provides example of AdvM currently in use



AH-64 Environmental Seal



MH-47G Fan Shroud



VISION



- Living document
- Expanded to include defined requirements in time

	Shop Aids & Non-Flyable Prototypes	Tool & Fixture	AGSE	Flight	Flight	Flight	Flight
Application:							
Airworthiness Impact:	none	none	none	none	Readiness	Operations	Safety
Annex:	D	E	F	G	H	I	J
	Cat 0	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	Cat 6
Qualification Item							
Material							
None required	P						
S-Basis		P		P			
B-Basis			P		P	P	
A-Basis							P
Feed stock spec		P	P	P	P	P	P
Material spec		P	P	P	P	P	P
Design							
FMECA		P	P	P	P	P	P
Form, fit, function check	P	P	P	P	P	P	P
Safety margin analysis (static, fatigue, fracture)		P	P	P	P	P	P
Validation test (proof/ static load, dynamic)		P	P		P	P	P
Manufacturing							
Process spec		P	P	P	P	P	P
Machine calibration		P	P	P	P	P	P
Machine/material operational qualification		P	P	P	P	P	P
Process performance qualification					P	P	P
Fatigue tests (coupon/full scale)					P	P	P
Production readiness review					P	P	P
Part Quality							
First article verification inspection					P	P	P
acceptance inspection (dimensional, NDI, surface, functional)		P	P	P	P	P	P
Material spec coupons with build (tensile, density, chemistry)		P	P	P	P	P	P



QUESTIONS





CONTACT INFORMATION



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