AMMO WG Teleconference Minutes – 15 July 2015

On 15 July, 2015 the Additive Manufacturing Maintenance Operations (AMMO) working group conducted a teleconference. A brief summary of the teleconference follows:

**America Makes Project Call #3 Project Awards:**

Congratulations to the 9 America Makes awardees. The opportunity exists for DoD personnel to serve as observers on the 9 projects. AMMO WG team members are encouraged to review the awardee synopses and identify any efforts you may be interested in becoming involved. You’ll have to wait until they get on contract to join. The POC is Rob Gorham at America Makes. Contact information is at <https://americamakes.us/> .

**NAVY FAB LAB Expansion**: – LT Todd Coursey provided a briefing about the Navy fabrication lab expansion and DARPA's MENTOR2 (manufacturing experimentation and outreach) program. Current projects include digital fabrication, additive manufacturing and mobile labs. They use open source equipment and the current training focus is to train the trainer. The brief will be available on the AMMO WG website once the AMMO website is up and running.

**TRF Kings Bay Grid Component**: – Craig Hoskins discussed repair/replacement options for a now obsolete slide valve grid component. Weld repairs over the years are showing micro-cracking and machining a new piece from metal stock is slow, and results in significant waste and cost. Through additive manufacturing a rapid prototype was produced and Keyport used 3D printing to print a mold which allows the part to be cast reducing cost, waste, and time.

**Digital Thread Working Group Formation:** – Greg Kilchenstein. It was noted at the 30 June JTEG forum on Digital Thread that no formal group has been chartered from an AM perspective. On 7 July, an initial teleconference was held to initiate a DoD Digital Thread Work Group. Col Bearden mentioned that Better Buying Power (BBP) 3.0 has a joint team looking at Digital Thread. They already have a charter. The charter will be made available on the AMMO website. Phil Zimmerman at ODASD(SE) is the POC. Greg stated we don’t want to create another group to do the same thing.

**Tiger Team AF AM Initiatives:** – Col Keith Bearden talked about increasing collaboration between engineers and the people who do MROs to improve the processes of adding new technologies and transitioning technologies. He presented a draft charter of an Air Force Tiger Team which is looking at Additive Manufacturing (including cold spray repair) as the test technology to examine integrating the engineering enterprise. The team will look at three candidates: non-critical parts, air worthy but non-critical, and air worthy & flight critical. The draft charter will be posted on the AMMO WG website once the website is up and running.

**J4 Point Papers**: Greg Kilchenstein referred to a couple information papers provided to senior leadership via J-4 for the AMMO WG’s your awareness.  The point papers frame AM, its potential and challenges in a way that leaders can quickly understand and digest.  They will be posted to the AMMO WG website once the website is up and running.

**Roadmapping:** - Greg Kilchenstein stated that America Makes is leading the effort to create a DoD AM Roadmap and has successfully gained commitments from the Military Services to resource and participate in this activity. The America Makes roadmapping initiative may begin as early as October 2015. The development of the Service roadmaps will create the opportunity to synthesize into a DoD roadmap. It was discussed that maintenance and sustainment would be a focal point in the DoD roadmap and that the AMMO WG membership will have the opportunity to influence its development.

**Action Items:**

Action (All):Review the awardee synopses and identify any efforts you may be interested in becoming involved.

Action (OSD(MPP)): Contact Phil Zimmerman at ODASD(SE) to discuss the BBP 3.0 Joint Digital Thread team.

Action (NCMS): Post the following to the AMMO WG website:

* Navy Fab Lab Expansion Brief
* AF AM Tiger Team Charter
* J4 Point Papers
* AM Roadmap Brief (pending authorization from America Makes

**Next Meeting:** - Wed, August 5th, at 11:00 am EDT

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