ATTACHMENT 2

USAF & USN CAD/PAD STATEMENT OF WORK - AMMUNITION DATA CARDS

January, 2018

1. Ammunition Data Cards (ADC) shall be prepared in accordance with MIL-STD-1168 (current revision) and shall follow the format required by the application identified as Worldwide Ammunition-data Repository Program (WARP). All of the requirements of MIL-STD-1168 apply but some are tailored in accordance with MIL-STD-962 to meet CAD/PAD program requirements as listed below.

2. The criteria and procedures for the assignment of lot numbers for energetic materials (pyrotechnics, propellants, explosives) including their constituents shall be in accordance with MIL-STD-1168.

3. All energetic materials (pyrotechnics, propellants, explosives) used in assemblies and sub-assemblies/components (i.e., igniter cartridges, delay elements, primer assemblies, explosive cord, etc.) shall be entered in the ADC using the common name, actual/original manufacturer's part number & revision, lot number, and date of manufacture. Traceability shall be ensured by the original manufacturer's documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR) Quality Inspection Record (QIR), Quality Assurance Documents (QAD), Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall.

4. The contractor may list their own internal part number for energetic material that they re-designate or re-characterize but must also list the actual manufacturer's part number, lot number, and date of manufacture in parentheses in a format that is searchable in WARP. Any GFM/GFP provided under contract to the vendor should retain government provided part/lot numbers and nomenclature to retain traceability. Ingredients which are used to synthesize or that are blended in a process to make the end item energetic material are not required to be listed. Examples of blended or synthesized energetic materials that shall be listed are HNS, Lead Azide, BKNO3, ZPP, HES 8028, etc. If the ages of energetic materials are older than the ages specified on the Airmunitions Specification or as specified elsewhere in the contract at the time the CAD/PAD devices become hermetically sealed, the date of energetic material recertification or any associated approved Request for Variance (RFV) shall be notated in the waivers and deviation description section.

5. Hardware components shall be fully traceable and identified by the original manufacturer's lot identification information/documentation or qualified distributor's documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR), Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall. The actual date of manufacture is not required for any non-age degradable materials such as metal housings, tubes, sleeves, firing pins, nuts, bolts, washers, etc. The COC, COA, QAR, or Batch Record date(s) may be used for the DOM. Epoxies, sealants, curative, O-rings, and other organic materials shall be fully traceable to OEM with DOM and traceable via the original manufacturer's lot identification documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR) Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall. Materials or components that do not affect the reliability or safety of the end item (i.e., solvents, paints, lacquers, labels, dust caps, etc.) do not need to be listed on the ADC.

6. The ADC data and information entered in WARP for all materials and components ideally shall stand alone for traceability to the actual manufacture's information (i.e. Mfg P/N, Mfg date (as applicable), Mfg lot number etc.). If contractor uses their own P/N, reference date for acceptance or other "trace"/traceability identification used internally for the non-critical piece parts/materials, it shall be noted in the remarks section, i.e. "trace ID, or PO used for the

following piece parts: (parts shall identified/listed)", provided the field/entry method is searchable in WARP. If traceability documentation is "questionable" or in conflict and needs clarification, the applicable engineer or equipment specialist shall be contacted to resolve any issues.

7. A "sample" ADC is generated in WARP the first time an ADC is submitted by the contractor for applicable government reviews and approvals. Upon approval of the sample ADC, a final version for each production lot shall be completed in WARP and uploaded for Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT - formerly WAWF) for review and acceptance prior to shipment of product by the applicable government authority. The WARP ADC program will not allow the submission of additional ADCs until such time as the sample ADC has been approved in the system. The sample ADC does not require the use of a "Z" interfix number used to identify it as a sample.

8. If any unique situations exist that may conflict with compliance, a resolution should be proposed by the contractor prior to contract award to determine possible work-around.

9. A hard copy of the applicable ADC(s) shall also be included with each shipment per applicable ADC CDRL.

WARP will reside within the Munitions History Program (MHP). Additional details on these WARP applications are provided below.

MHP-WARP Access Procedures

- Government or Contractor employee with CAC and AKO account:

(a) Click on the MHP hyperlink which is https://mhp.redstone.army.mil/
(b) Enter CAC PIN when prompted
(c) Click on WARP (ADC)
(d) Click on Help
(e) Click on WARP Request Access and follow instructions

- Contractor or Government employee without CAC and AKO account: MHP-WARP uses PKI authentication requiring a DoD approved digital certificate as a security measure to protect the integrity of stored data. There are three vendors that have been approved to issue DoD approved certificates per an External Certification Authority (ECA) program. You are required to use one of the approved vendors listed on the following DISA website: http://iase.disa.mil/pki/eca/index.html
  A nominal fee is charged for each certificate. The Contractor, including any subcontractors, shall assume the responsibility for all costs of obtaining each digital certificate needed.

- After the required certificate is obtained:

(a) Click on the MHP-WARP hyperlink: https://mhpwarp.redstone.army.mil/
(b) Enter ECA password
(c) Click on Help and follow the instructions for obtaining the necessary access

- HELP Numbers are as follows:

MHP Access – (256)313-2143; DSN 897-2143
JMC Quality Administrators for WARP issues – (309)782-2697 or (309)782-7107

- Worldwide Ammunition-data Repository Program (WARP)

An online user's manual will provide additional help and criteria in the development of an ammunition data card. It is recommended that you download and read the user's manual prior to creating and filling out your initial ammo data card. The user's manual also contains screen shots, which depict what the data entry person will see during the ADC input process.

- Ammunition Data Card Input

ADC input allows current contractors and government facilities the capability to create, and submit for approval, both sample ADCs and production lot ADCs which meet the format requirements of MIL-STD-1168 and as specified in this SOW for ADCs. ADCs are automatically forwarded to the respective Government Agency Responsible for Acceptance (GARA). The GARA in most cases is the Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR), who reviews contractor input for accuracy and completeness, and after updating the disposition code for the specific lot, submits the ADC to the database. The contractor's data entry person is granted access only to ADCs identified with its specific manufacturing code, as identified in MIL-HDBK-1461, Manufacturer's Symbols. The use of previously inputted ADCs through the TEMPLATE option significantly reduces input effort, while increasing accuracy and consistency of data.

- Email Notification

WARP provides immediate, automated notification to process participants when actions are required. When the producer has completed an ADC submission, an email message is routed to the GARA advising that an ADC awaits review and approval. If the GARA approves the ADC as submitted, the ADC is released to the WARP database and an email, with approved data card, is routed back to the originator. If the ADC requires modification or correction to conform with MIL-STD-1168 and/or the approved format and technical content as approved by the government, an email is provided to the ADC originator advising that corrective action is required prior to approval.

- Information Updates

It is important that the System Administrators are apprised when a producer receives a new contract. The producer shall notify usarmy.RIA.jmc.mbx.warp@mail.mil within 30 days after receipt of a new contract. Information to be included shall be the contract number, item, GARA, Manufacturer's identification symbol and the names of the individuals who will be inputting ADCs into the system. If you are a new producer and do not have a Manufacturer's identification symbol, you can obtain one by sending an email to usarmy.RIA.jmc.mbx.warp@mail.mil. The email must contain manufacturer's name, address where performance of the contract will take place, and a point of contact.

(End of statement of work)